

Inequivalent maximal antichains of the Boolean lattice on n elements

Outline

0. The basic code with the class for managing generation of formal concepts
1. Generation of inequivalent maximal antichains for $n \in \{1, 2, 3, 4, 5, 6, 7\}$
2. Extraction of maximal antichains from order ideals
3. Generating non-singleton maximal antichains for **A326360** with $n \in \{5, 6, 7\}$
4. Generation of dictionaries with all inequivalent maximal antichains along with their orbits' cardinalities for $n \in \{1, 2, 3, 4, 5, 6\}$

The repository with this code in iPython notebook and the data are available at <https://github.com/dimachine/NonEquivMACs> (<https://github.com/dimachine/NonEquivMACs>)'

```
In [1]: %%load_ext Cython
        # uncomment the previous line for Cython's speedup
```

0. The basic code with the class for managing generation of formal concepts

```

In [18]: ###cython --annotate
# uncomment the previous line for Cython's speedup

from itertools import permutations
from math import log

def lst2int(lst):
    #list to int transformer
    r=0
    for i in lst:
        r |= (1<<i)
    return r

class nnBitContext:
    #class for managing formal contexts
    def __init__(self, n=3, i=0, m=3):
        self.attr_names=[str(m+1) for m in range(n)]
        self.objects=[]
        #print(bin(i))
        for j in range(m):
            self.objects.append(i & ((1<<n) - 1))
            #print(bin(i & ((1<<n) - 1)))
            i=i>>n
            #print(bin(i))
        self.nAttr=len(self.attr_names)
        self.nObj=len(self.objects)

    def aClosure(self, aSet):
        #attribute closure
        B=(1<<self.nAttr)-1
        for g in self.objects:
            if aSet & g == aSet:
                B=B & g
        return B

    def oClosure(self, oSet):
        #object closure
        B=self.oPrime(oSet)
        A=[]
        for i in range(self.nObj):
            if B & self.objects[i] == B:
                A.append(i)
        #print("A",A)
        return A

    def oPrime(self, oSet):
        #object prime takes a list of objects (indicies) and results in
an integer (bitset)
        B=(1<<self.nAttr)-1
        for i in oSet:
            B=B&self.objects[i]
        return B

```

```

def aPrime(self, aSet):
    #attribute prime takes an integer (bitset of attributes)
    #and results in a list of objects (the extent)
    A=[]
    for i in range(self.nObj):
        if aSet & self.objects[i]==aSet:
            A.append(i)
    return A

def cxtFromFile(filename):
    #reading context from file
    cxt=nnBitContext(0,0,0)

    f = open(filename, "r")
    print(f.readline())
    print(f.readline())

    cxt.nAttr=int(f.readline())
    cxt.nObj=int(f.readline())

    print(f.readline())

    for i in range(cxt.nObj):
        print(f.readline())

    for i in range(cxt.nAttr):
        cxt.attr_names.append(f.readline())

    for l in range(cxt.nObj):
        o=f.readline().replace('.', '0').replace('X', '1')
        print(o)

        cxt.objects.append(int(o,2))
        #print(bin(i & ((1<<n) - 1)))

        #print(bin(i))
    return cxt

def BitNextClosure(A, bCxt):
    #Ganter's NextColusre with bits as integers
    #print("Bit NextClosure")
    for m in range(bCxt.nAttr-1,-1,-1):
        #print("m=",m)
        if A & (1<<m):
            #print("A=",A)
            A= A & ~(1<<m)
            #print("A= A & ~(1<<m)",A)
        else:
            B=bCxt.aClosure(A | (1<<m))
            #print("A=",A,bin(A))
            #print("B=cl(AUm)",B)
            B_A=B & ~A
            #print("B-A",B_A,bin(B_A))

```

```

        if not B_A & ((1<<m)-1):
            #print("B_A", B_A, bin(B_A), "((1<<m)-1)", ((1<<m)-1), b
in(((1<<m)-1)))
            return B
        return -1

def FirstClosure(Cxt):
    #compute the first closure
    #print("First closure")
    if Cxt.objects==[]:
        return 2**Cxt.nAttr-1
    eCl=Cxt.objects[0]
    if eCl:
        for g in Cxt.objects[1:]:
            eCl= eCl & g
    return eCl

def AllNonIsoClosures(bCxt):
    #a wrapper for computing all non-isomorphic closures
    #print("All closures")
    L={}
    cnt=0
    A=FirstClosure(bCxt)
    n=int(log(bCxt.nAttr,2))
    print(n)
    Perms=list(permutations(range(n)))
    #print("First Closure",A,bin(A))
    while A!=-1:
        #print ("A=",A, "binary representation", bin(A))
        CA=set(PermsIntent(A,Perms,bCxt.nAttr))
        minCA=min(CA)
        if minCA not in L:
            L[minCA]=CA
            cnt+=1
        A=BitNextClosure(A,bCxt)
    print(int(log(bCxt.nAttr,2)),cnt)
    return L

def PermsIntent(intent,perms,nAttr):
    out=[]
    for p in perms:
        out.append(PermIntent(intent,p,nAttr))
    return out

def PermIntent(intent,perm,nAttr):
    out=0
    for i in range(nAttr):
        if (intent>>i) & 1==1:
            out=out | (1<<PermBit(i,perm))
            #print(PermBit(i,perm))
    return out

def PermBit(bit,perm):
    out=0

```

```
for i in range(len(perm)):
    if (bit>>i) & 1==1:
        out=out | (1<<perm[i])
return out

def PermTuple(t,perm):
    ret=[]
    for bit in t:
        ret.append(PermBit(bit,perm))
    return tuple(ret)
```

1. Generation inequivalent maximal antichains for $n \in \{1, 2, 3, 4, 5, 6, 7\}$

```
In [3]: %%time
        #computing the first six members of A348260
        Cxts=[]
        for i in range(1,7):
            Cxts.append(cxtFromFile("MA"+str(i)+"_0_1.cxt"))

        Cnts={}
        for c in Cxts:
            r=AllNonIsoClosures(c)
            Cnts[tuple(r.keys())]=len(r)
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CPU times: user 12min 44s, sys: 6.1 s, total: 12min 50s
Wall time: 12min 55s

In [92]: `Cnts # the corresponding order ideals encoded by integers`

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Out[92]: {(1, 3): 2,  
(1, 7, 15): 3,  
(1, 23, 31, 127, 255): 5,  
(1, 279, 287, 383, 511, 6015, 6143, 8191, 32767, 65535): 10,  
(1,  
65815,  
65823,  
65919,  
66047,  
71551,  
71679,  
73727,  
98303,  
131071,  
18290559,  
18290687,  
18292735,  
18817023,  
18823039,  
18823167,  
20922239,  
18317311,  
18350079,  
18841599,  
18874367,  
25133055,  
25165823,  
33554431,  
394231807,  
394264575,  
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536870911,  
2147483647,  
4294967295): 30,  
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4295033119,  
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4295033343,  
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4295065599,  
4295098367,  
4313257855,  
4313257983,  
4313260031,  
4313784319,  
4313790335,  
4313790463,  
4315889535,  
4313284607,  
4313317375,  
4313808895,  
4313841663,  
4320100351,  
4320133119,
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4328521727,
4689199103,
4689231871,
4697620479,
4831838207,
6442450943,
8589934591,
282673290876799,
282673290876927,
282673290878975,
282673291403263,
282707651141631,
282673291409279,
282673291409407,
282707651147647,
282707651147775,
282673293508479,
282707652722559,
282707653246847,
282845092200319,
282845123655551,
282673290903551,
282673290936319,
282673291427839,
282673291460607,
282707651166207,
282707651198975,
282707652728831,
282707652739071,
282707652771839,
282707919050623,
282707919050751,
282707919058943,
282707954710399,
282708491581311,
282707954710527,
282708491581439,
282707921164287,
282845190766463,
282845324984191,
282673297719295,
282673297752063,
282673306140671,
282707657457663,
282707657490431,
282707665879039,
282707919077375,
282707919110143,
282707954728959,
282707954761727,
282708491599871,
282708491632639,
282845425112959,
282845425123199,
282845461299071,
282845595516799,
282846132387711,

283119974318079,
283119974350847,
283119982739455,
283669738553343,
283120068665343,
283120202883071,
283669958696959,
283120068689919,
283120068722687,
283120202907647,
283120202940415,
283669958721535,
283669958754303,
289682784458623,
289717144723455,
289717153112063,
289717287329791,
290267034755071,
290267043143679,
299063136165887,
282673666818047,
282673666850815,
282673675239423,
282673809457151,
282708026556415,
282708026589183,
282708034977791,
282708169195519,
282708563427327,
282708563460095,
282708571848703,
282675420069887,
282677567553535,
282709637169151,
282709637201919,
282709779808255,
282711927291903,
283120343416831,
283120343449599,
283120351838207,
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283670099263487,
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283120477667327,
283120486055935,
283670233448447,
283670233481215,
283670241869823,
283121014505471,
283121014538239,
283670770319359,
283670770352127,
283122088247295,
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283671852482559,

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307309599227903,
307309599260671,
307309607616511,
307309607649279,
307859363430399,
307859363463167,
307309741834239,
307309741867007,
307859489259519,
307859489292287,
307859497648127,
307859497680895,
316655590670335,
316655590703103,
307310278705151,
307860026130431,
307860026163199,
307860034519039,
316655993323519,
316655993356287,
316656127541247,
351840499630079,
307311352479743,
307313499963391,
307861108293631,
307863255777279,
316657058709503,
316657201315839,
316659348799487,
422210317582335,
422212465065983,
562949953421311,
78557353124790271,
78557353124823039,
78557353133211647,
78557902889025535,
78557353267429375,
78557903014821887,
78557903014854655,
78557903023243263,
78566699116232703,
78566699116265471,
80818498929950719,
78557903551692799,
78557903551725567,
78566699518885887,
78566699518918655,
78566699653103615,
80818499324182527,
80818499324215295,
80818499332603903,
78601884025192447,
80844887737466879,
80844887737499647,
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78557354878042111,

78557357025525759,
78557904633855999,
78557906781339647,
78566700584271871,
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78566702874361855,
80818500540563455,
80818502688047103,
80844338384306175,
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80844338392727551,
80844888148541439,
80844888274370559,
80844339063816191,
80844341211299839,
80844888819630079,
80844890967113727,
80914707665354751,
80915257429557247,
89860334411579391,
89860336559063039,
78672253843144703,
78672255990628351,
78812993478983679,
80924053656829951,
80924055804313599,
81064793292668927,
107945101656817663,
107945651421052927,
107945653568536575,
108086391056891903,
144115188075855871,
1693212720255467519,
1693212722402951167,
1693353459891306495,
1729382256910270463,
2305843009213693951,
9223372036854775807,
18446744073709551615): 233}

```
In [3]: cxt=cxtFromFile("MA7_0_1.cxt")
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In [4]: `cxt.nAttr`

Out[4]: 128

In [5]: `log(cxt.nAttr,2)`

Out[5]: 7.0

```
In [6]: def isLectLess(A,B):
        #is A lectionally smaller than B?
        if A==B: return False
        i=0
        while True:
            a=(A>>i & 1)
            b=(B>>i & 1)
            if a!=b:
                if a<b:
                    return True
                else:
                    return False

            i+=1
```

In [7]: `isLectLess(1,3)`

Out[7]: True

In [8]: `isLectLess(3,1)`

Out[8]: False

In [9]: `isLectLess(4,5)`

Out[9]: True

```
In [10]: isLectLess(5,4)
```

```
Out[10]: False
```

```
In [11]: def LectMax(Orb):  
    #maximal element within a given orbit  
    Orb=list(Orb)  
    maxA=Orb[0]  
    for o in Orb:  
        if isLectLess(maxA,o):  
            maxA=o  
    return maxA
```

```
In [12]: LectMax([6, 18, 6, 20, 18, 20])
```

```
Out[12]: 6
```

```
In [13]: isLectLess(6,6)
```

```
Out[13]: False
```

```
In [14]: def BitNextOrbMaxClosureEnch(A,bCxt):  
    #bit strings as integers for maximal next closure with respect orbit  
    s and lectic order  
    #print("Bit NextClosure")  
    n=int(log(bCxt.nAttr,2))  
    for m in range(bCxt.nAttr-1,-1,-1):  
        #print("m=",m)  
        if A & (1<<m):  
            #print("A=",A)  
            A= A & ~(1<<m)  
            #print("A= A & ~(1<<m)",A)  
        else:  
            B=bCxt.aClosure(A |(1<<m))  
            #print("A=",A,bin(A))  
            #print("B=cl(AUm)",B)  
            B_A=B & ~A  
            #print("B-A",B_A,bin(B_A))  
            if not B_A & ((1<<m)-1):  
                #print("B_A", B_A, bin(B_A), "((1<<m)-1)", ((1<<m)-1), b  
in(((1<<m)-1)))  
            Perms=permutations(range(n))  
            mode=True  
            for p in Perms:  
                pB=PermIntent(B,p,bCxt.nAttr)  
                if isLectLess(B,pB):  
                    mode=False  
                    break;  
            if mode: return B  
    return -1
```

```
In [15]: def AllNonIsoClosuresMaxOrbEnch(bCxt):
    #all non-siomorphic closures
    #print("All closures")
    L=[]
    cnt=0
    A=FirstClosure(bCxt)
    #print("First Closure",A,bin(A))
    while A!=-1:
        #print ("A=",A, "binary representation", bin(A))
        L.append(A)
        cnt+=1
        A=BitNextOrbMaxClosureEnch(A,bCxt)
        if cnt%100==0: print(cnt)
    print(int(log(bCxt.nAttr,2)),cnt)
    return L
```

```
In [17]: %%time
#computing sixth member of A348260
Cxts=[]
for i in range(6,7):
    Cxts.append(cxtFromFile("MA"+str(i)+"_0_1.cxt"))

Cnts={}
for c in Cxts:
    r=AllNonIsoClosuresMaxOrbEnch(c)
    Cnts[tuple(r)]=len(r)
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00000000111111100000000111111100000000111111100000001111111111
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CPU times: user 6.8 s, sys: 58.6 ms, total: 6.86 s

Wall time: 6.9 s

```
In [140]: #computing seventh member of A348260
%%time
Cxts=[]
for i in range(7,8):
    Cxts.append(cxtFromFile("MA"+str(i)+"_0_1.cxt"))

Cnts={}
for c in Cxts:
    r=AllNonIsoClosuresMaxOrbEnch(c)
    Cnts[tuple(r)]=len(r)
```

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CPU times: user 13h 50min 46s, sys: 5min 43s, total: 13h 56min 30s
Wall time: 17h 23min 11s

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In [141]: r # all corresponding maximal closures encoded as integers
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61084914522014998750860551389183,
79231803883098033090059042815,
20520097732563297132224398229503,
61084916939866637980118900801535,
79229377177021648451124854783,
237685702205550323638212755455,
79251137841774711776269565951,
237707462870303386963357466623,
79229462179618340104738701311,
20520095390859817439239077887999,
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79229376734299790682095615999,
554598351819885816243359318015,
1188423651934000516991710920703,
79236630289217478457143853055,
554605605374803504018407555071,
1188430905488918204766759157759,
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20837007983805755137408481886207,
61401827191109095985302984458239,
21470833283919869838156833488895,
18448722228305461247,
79229376586727526942279467007,
20361638980238397950889530753023,
5212658497515066026481385859973119,
237685701615256202129367367679,
79229452144591252856602886143,
20361639055796261676803854172159,

79248794957705086923398184959,
5212658516933437004041366978691071,
79229386031460492681569894399,
20520095314711659591815909081087,
61084914522015000439710411653119,
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5212816956267390927351570587713535,
5253381775474694268199465090285567,
15637975492544349525260457748725759,
79229377177023337300985118719,
237685702205552012488073019391,
79229462179620028954598965247,
20520095390859819128088938151935,
61084914598163159975983440723967,
79251222844373092279743676415,
5212816975686352200721910412083199,
5253381794893655541569804914655231,
15637975511963310798630797573095423,
79229376734301479531955879935,
554598351819887505093219581951,
1188423651934002205841571184639,
79229405068500376749827162111,
20837007983805756826258342150143,
61401827191109097674152844722175,
21470833283919871527006693752831,
79236658623418064524875399167,
5213133873772188303044529719607295,
5253698692979491643892424222179327,
26022886127118802158014409539059711,
5213767699072302417745278071209983,
18447042174538219519,
...): 35925}

```
In [145]: #computing first six members of A348260
%%time
#Cxts=[]
for i in range(1,7):
    Cxts.append(cxtFromFile("MA"+str(i)+"_0_1.cxt"))

#Cnts={}
for c in Cxts[1:]:
    r=AllNonIsoClosuresMaxOrbEnch(c)
    Cnts[tuple(r)]=len(r)
```

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B

0

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0111

0111

0001

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11111111

01111111

01111111

00011111

01111111

00110111

01010111

00000001

B

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1111111111111111

0111111111111111
0111111111111111
0001111111111111
0111111111111111
0011011111111111
0101011111111111
0000000111111111
0111111111111111
0011111011111111
0101111011111111
0000111100011111
0111011101111111
0011001100110111
0101010101010111
0000000000000001

B

- 0
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10

0000000111111111111111111111111111
0111111111111111111111111111111111
0011111011111111111111111111111111
0101111011111111111111111111111111
0000111100011111111111111111111111
0111011101111111111111111111111111
0011001100110111111111111111111111
0101010101010111111111111111111111
0000000000000001111111111111111111
0111111111111111111111111111111111
0011111111111110111111111111111111
0101111111111110111111111111111111
0000111111111110001111111111111111
0111011111111110111111111111111111
0011001111111110011011111111111111
0101010111111110101011111111111111
0000000011111110000000111111111111
0111111011111110111111111111111111
0011111001111110011111101111111111
0101111010111110101111101111111111
0000111100001111000011110001111111
0111011101110111011101110111111111
0011001100110011001100110011011111
0101010101010101010101010101011111
0000000000000000000000000000000001

B

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0000111111111111000011111111111100001111111111110001111111111111
0111011111111111011101111111111101110111111111111011111111111111
0011001111111111001100111111111100110011111111110011011111111111
0101010111111111010101011111111101010101111111110101011111111111
0000000011111111000000001111111100000000111111110000000111111111
0111111101111111011111110111111101111111011111110111111111111111
0011111100111111001111110011111100111111001111110011111101111111
0101111101011111010111110101111101011111010111110101111101111111
0000111100001111000011110000111100001111000011110000111100011111
0111011101110111011101110111011101110111011101110111011101111111
0011001100110011001100110011001100110011001100110011001100110111
0111
0001

1 2
2 3
3 5
4 10
5 30
100
200
6 233
1 2
2 3
3 5
4 10
5 30
100
200
6 233

CPU times: user 45.8 s, sys: 351 ms, total: 46.1 s
Wall time: 1min 1s

```
In [150]: list(Cnts.keys())[1:]
```



```
Out[150]: [(1, 3),
(1, 7, 15),
(1, 23, 31, 127, 255),
(1, 279, 287, 383, 6015, 511, 6143, 8191, 32767, 65535),
(1,
65815,
65823,
65919,
71551,
18290559,
66047,
71679,
18290687,
51845119,
73727,
18292735,
20389887,
53944319,
18817023,
98303,
18317311,
18841599,
25133055,
394231807,
131071,
18350079,
18874367,
25165823,
394264575,
33554431,
402653183,
536870911,
2147483647,
4294967295),
(1,
4295033111,
4295033119,
4295033215,
4295038847,
4313257855,
282673290876799,
4295033343,
4295038975,
4313257983,
282673290876927,
72340267328804863,
4346812415,
282673324431359,
4295041023,
4313260031,
282673290878975,
4786272918249471,
76843866956177407,
845623244300287,
4315357183,
282673292976127,
287071339487231,
```

284872316231679,
847822269652991,
282948170883071,
4348911615,
282673326530559,
282948204437503,
287346250948607,
76848539916247039,
4313784319,
282673291403263,
282810730356735,
285009753612287,
847959707033599,
282707651141631,
4295065599,
4313284607,
282673290903551,
845623244324863,
4313808895,
282673291427839,
845623244849151,
300265477472255,
282810730381311,
845760683802623,
282707651166207,
1971557511430143,
4320100351,
282673297719295,
284872320974847,
847822274396159,
282707657457663,
289304727224319,
1978154587488255,
283119974318079,
4689199103,
282673666818047,
282708026556415,
283120343416831,
307309599227903,
78557353124790271,
4295098367,
4313317375,
282673290936319,
845623244357631,
4313841663,
282673291460607,
845623244881919,
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845760683835391,
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1971557511462911,
4223357325148159,
4320133119,
282673297752063,
845623251173375,
284872321007615,

847822274428927,
282707657490431,
1971557517754367,
4223357331439615,
289304727257087,
1978154587521023,
4229954401206271,
283119974350847,
6475569461985279,
4689231871,
282673666850815,
845623620272127,
282708026589183,
1971557886853119,
4223357700538367,
283120343449599,
6475569831084031,
8727369644769279,
307309599260671,
78557353124823039,
80809152938508287,
1233730657545355263,
4328521727,
282673306140671,
284872329396223,
847822282817535,
282707665879039,
289304735645695,
1978154595909631,
298100828667903,
1986950688931839,
4238750502617087,
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307309238550527,
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282673675239423,
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72905416689844223,
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282708034977791,
289305104744447,
74035749002936319,
218150937078792191,
298101197766655,
74044545095958527,
218159733171814399,
76296344909643775,
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316105700671487,
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1231487653833080831,

87573348480974847,
231688536556830719,
80817949039919103,
1233739453646766079,
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77426746076430335,
337786829799423,
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230584317779116031,
282708169195519,
283120486055935,
307309741867007,
78557353267429375,
342494113955839,
78592537639518207,
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87599736894259199,
231714924970115071,
412862858133503,
78662906383695871,
87670105638436863,
105684504147918847,
538030068375486463,
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307859497680895,
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343043869769727,
78593087395332095,
222708275471187967,
96607485904814079,
316655590703103,
78566699116265471,
87573898371006463,
231689086446862335,
80818498929950719,
6442450943,
282675420069887,
282709779808255,
283122096668671,
307311352479743,
78557354878042111,
283671852482559,
307861108293631,
78557904633855999,
222673092709711871,
316657201315839,

78566700726878207,
87573899981619199,
231689088057475071,
80818500540563455,
422210317582335,
78672253843144703,
80924053656829951,
107945651421052927,
1693212720255467519,
8589934591,
282677567553535,
282711927291903,
283124244152319,
307313499963391,
78557357025525759,
283673999966207,
307863255777279,
78557906781339647,
222673094857195519,
316659348799487,
78566702874361855,
87573902129102847,
231689090204958719,
80818502688047103,
422212465065983,
78672255990628351,
80924055804313599,
107945653568536575,
1693212722402951167,
562949953421311,
78812993478983679,
81064793292668927,
108086391056891903,
1693353459891306495,
144115188075855871,
1729382256910270463,
2305843009213693951,
9223372036854775807,
18446744073709551615)]

2. Extraction of maximal antichains from order ideals

```
In [18]: def findMax(S):
#find maximal elements of an order ideal
i=0
comp=[]
maxima=[]
while (S>>i!=0):
    if S>>i&l==1:
        comp.append(i)
        i+=1
    for i in comp:
        mode=True
        for j in comp:
            if i & j==i and i!=j:
                mode=False
                break;
        if mode==False: continue
    maxima.append(i)
return maxima
```

```
In [155]: findMax(7)
```

```
Out[155]: [1, 2]
```

```
In [156]: findMax(15)
```

```
Out[156]: [3]
```

```
In [157]: findMax(1)
```

```
Out[157]: [0]
```

```
In [17]: def ideals2ACs(ideals):
#transform iedeals to antichains
ACs=[]
for i in ideals:
    ACs.append(findMax(i))
return ACs
```

```
In [159]: ideals2ACs(list(Cnts.keys())[1])
```

```
Out[159]: [[0], [1]]
```

```
In [160]: ideals2ACs(list(Cnts.keys())[2])
```

```
Out[160]: [[0], [1, 2], [3]]
```

```
In [161]: ideals2ACs(list(Cnts.keys())[3])
```

```
Out[161]: [[0], [1, 2, 4], [3, 4], [3, 5, 6], [7]]
```

```
In [162]: ideals2ACs(list(Cnts.keys())[4])
```

```
Out[162]: [[0],  
[1, 2, 4, 8],  
[3, 4, 8],  
[3, 5, 6, 8],  
[3, 5, 6, 9, 10, 12],  
[7, 8],  
[7, 9, 10, 12],  
[7, 11, 12],  
[7, 11, 13, 14],  
[15]]
```

```
In [163]: ideals2ACs(list(Cnts.keys())[5])
```

```
Out[163]: [[0],  
[1, 2, 4, 8, 16],  
[3, 4, 8, 16],  
[3, 5, 6, 8, 16],  
[3, 5, 6, 9, 10, 12, 16],  
[3, 5, 6, 9, 10, 12, 17, 18, 20, 24],  
[7, 8, 16],  
[7, 9, 10, 12, 16],  
[7, 9, 10, 12, 17, 18, 20, 24],  
[7, 10, 12, 18, 20, 25],  
[7, 11, 12, 16],  
[7, 11, 12, 17, 18, 20, 24],  
[7, 11, 12, 18, 21, 24],  
[7, 11, 12, 18, 21, 25],  
[7, 11, 12, 19, 20, 24],  
[7, 11, 13, 14, 16],  
[7, 11, 13, 14, 17, 18, 20, 24],  
[7, 11, 13, 14, 19, 20, 24],  
[7, 11, 13, 14, 19, 21, 22, 24],  
[7, 11, 13, 14, 19, 21, 22, 25, 26, 28],  
[15, 16],  
[15, 17, 18, 20, 24],  
[15, 19, 20, 24],  
[15, 19, 21, 22, 24],  
[15, 19, 21, 22, 25, 26, 28],  
[15, 23, 24],  
[15, 23, 25, 26, 28],  
[15, 23, 27, 28],  
[15, 23, 27, 29, 30],  
[31]]
```

```
In [164]: ideals2ACs(list(Cnts.keys())[6])
```



```
Out[164]: [[0],
 [1, 2, 4, 8, 16, 32],
 [3, 4, 8, 16, 32],
 [3, 5, 6, 8, 16, 32],
 [3, 5, 6, 9, 10, 12, 16, 32],
 [3, 5, 6, 9, 10, 12, 17, 18, 20, 24, 32],
 [3, 5, 6, 9, 10, 12, 17, 18, 20, 24, 33, 34, 36, 40, 48],
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 [7, 9, 10, 12, 17, 18, 20, 24, 32],
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 [7, 11, 12, 17, 18, 20, 24, 32],
 [7, 11, 12, 17, 18, 20, 24, 33, 34, 36, 40, 48],
 [7, 11, 12, 17, 18, 24, 33, 34, 40, 52],
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In [334]: len(list(Cnts.keys())[0])
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```
Out[334]: 35925
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```
In [335]: import pickle
```

```
In [337]: rid7={}  
rid7[list(Cnts.keys())[0]]=list(Cnts.values())[0]
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In [338]: `rid7`

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```
In [339]: iACs7=ideals2ACs(list(Cnts.keys())[0])
```

```
In [340]: len(iACs7)
```

```
Out[340]: 35925
```

```
In [341]: pickle.dump(iACs7,open("inequivACs7.pickle","wb")) #saving inequivalent  
          antichains for n=7 in a pickle file
```

```
In [2]: import pickle  
iACs7=pickle.load(open("inequivACs7.pickle","rb")) #loading inequivalent  
antichains for n=7 from a pickle file
```



```
In [3]: iACs7 #printing inequivalent antichains for n=7
```

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In [342]: pickle.dump(rid7,open("inequivIdeals4AC7.pickle","wb")) #saving inequiv  
alent order ideals for n=7 in a pickle file
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In [4]: rid7=pickle.load(open("inequivIdeals4AC7.pickle","rb")) #loading inequiv  
alent order ideals for n=7 in a pickle file
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```
In [11]: # generating all maximal antichains by permuting their inequivalent representatives
from itertools import permutations
perv7=[]
cnt=0
for t in iACs7:
    cnt+=1
    Perms7=permutations(range(7))
    perv=set([])
    for p in Perms7:
        perv.add(tuple(sorted(PermTuple(t,p))))
    perv7.extend(list(perv))
    if cnt%100==0: print(cnt)
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(4, 11, 17, 18, 33, 34, 56, 64),
(1, 2, 12, 20, 40, 48, 88, 100),
(7, 8, 18, 20, 34, 36, 49, 64),
...]
```

```
In [ ]: MACs7=perv7
pickle.dump(MACs7,open("allMAC7.pickle","wb")) #saving maximal antichain
s for n=7 in a pickle file
```

```
In [ ]: MACs7_=pickle.load(open("allMAC7.pickle","rb")) #loading maximal anticha
ins for n=7 in a pickle file
```

```
In [ ]: len(MACs7)
```

3. Generating non-singleton maximal antichains for A326360 with $n \in \{5, 6, 7\}$

```
In [22]: # Generating non-singleton maximal antichains for n=7
cnt=0
prohibited=[0]
prohibited.extend(list([2**i for i in range(7)]))#[0,1,2,4,8,16,32,64],
  i.e. all one-element sets as integers and empty set
print(prohibited)
for ac in MACs7:
  #MACs7 the list of precomputed maximal antichains of powerset of {1,...,
  7} encoded as lists of integers
  mode=True
  for p in prohibited:
    if p in ac:
      mode=False
      break
  if mode: cnt+=1
  if cnt%1000000==0: print(cnt)
print(cnt)
```


0
0
0
0
0
0
0
0
1000000
2000000
3000000
4000000
5000000
6000000
7000000
8000000
9000000
10000000
11000000
12000000
13000000
14000000
15000000
16000000
17000000
18000000
19000000
20000000
21000000
22000000
23000000
24000000
25000000
26000000
27000000
28000000
29000000
30000000
31000000
32000000
33000000
34000000
35000000
36000000
37000000
38000000
39000000
40000000
41000000
42000000
43000000
44000000
45000000
46000000
47000000
48000000
49000000

50000000
51000000
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59000000
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63000000
64000000
65000000
66000000
67000000
68000000
69000000
70000000
71000000
72000000
73000000
74000000
75000000
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79000000
80000000
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86000000
87000000
88000000
89000000
90000000
91000000
92000000
93000000
94000000
95000000
96000000
97000000
98000000
99000000
100000000
101000000
102000000
103000000
104000000
105000000
106000000


```
107000000
108000000
109000000
110000000
111000000
112000000
113000000
114000000
115000000
116000000
117000000
118000000
119000000
120000000
121000000
122000000
123000000
```

```
In [23]: cnt # a(7) for A326360
```

```
Out[23]: 123590767
```

```
In [24]: MACs7[-1]
```

```
Out[24]: (127,)
```

```
In [46]: listIneqACs[4] # inequivalent maximal antichains for n=5
```

```
Out[46]: [[0],
 [1, 2, 4, 8, 16],
 [3, 4, 8, 16],
 [3, 5, 6, 8, 16],
 [3, 5, 6, 9, 10, 12, 16],
 [3, 5, 6, 9, 10, 12, 17, 18, 20, 24],
 [7, 8, 16],
 [7, 9, 10, 12, 16],
 [7, 9, 10, 12, 17, 18, 20, 24],
 [7, 10, 12, 18, 20, 25],
 [7, 11, 12, 16],
 [7, 11, 12, 17, 18, 20, 24],
 [7, 11, 12, 18, 21, 24],
 [7, 11, 12, 18, 21, 25],
 [7, 11, 12, 19, 20, 24],
 [7, 11, 13, 14, 16],
 [7, 11, 13, 14, 17, 18, 20, 24],
 [7, 11, 13, 14, 19, 20, 24],
 [7, 11, 13, 14, 19, 21, 22, 24],
 [7, 11, 13, 14, 19, 21, 22, 25, 26, 28],
 [15, 16],
 [15, 17, 18, 20, 24],
 [15, 19, 20, 24],
 [15, 19, 21, 22, 24],
 [15, 19, 21, 22, 25, 26, 28],
 [15, 23, 24],
 [15, 23, 25, 26, 28],
 [15, 23, 27, 28],
 [15, 23, 27, 29, 30],
 [31]]
```

```
In [20]: iMACs5=listIneqACs[4]
```

```
In [24]: # Generating all maximal antichains for n=5
from itertools import permutations
perv5=[]
cnt=0
for t in iMACs5:
    cnt+=1
    Perms5=permutations(range(5))
    perv=set([])
    for p in Perms5:
        perv.add(tuple(sorted(PermTuple(t,p))))
    perv5.extend(list(perv))
    if cnt%100==0: print(cnt)
```

```
In [25]: MACs5=perv5
```



```
In [30]: # Generating all maximal antichains for n=6
from itertools import permutations
perv6=[]
cnt=0
for t in iMACs6:
    cnt+=1
    Perms6=permutations(range(6))
    perv=set([])
    for p in Perms6:
        perv.add(tuple(sorted(PermTuple(t,p))))
    perv6.extend(list(perv))
    if cnt%100==0: print(cnt)
```

```
100
200
```

```
In [31]: MACs6=perv6
```

```
In [32]: pickle.dump(MACs6,open("allMAC6.pickle","wb"))
```

```
In [33]: # Generating non-singleton maximal antichains for n=5
cnt=0
prohibited=[0]
prohibited.extend(list([2**i for i in range(6)]))#[0,1,2,4,8,32], i.e. a
ll one-element sets as integers and empty set
print(prohibited)
for ac in MACs6:
#MACs6 the list of precomputed maximal antichains of powerset of {1,...,
6} encoded as lists of integers
    mode=True
    for p in prohibited:
        if p in ac:
            mode=False
            break
    if mode: cnt+=1
    if cnt%1000000==0: print(cnt)
print(cnt)
```


0
0
29820

4. Generation of dictionaries with all inequivalent maximal antichains along their with orbits' cardinalities

```
In [19]: %%time
from math import log
from itertools import permutations
Cxts=[]
for i in range(1,7):
    Cxts.append(cxtFromFile("MA"+str(i)+"_0_1.cxt"))

dicIneqIdeals4ACs=[]
listIneqACs=[]
for c in Cxts:
    temp=AllNonIsoClosuresMaxOrbEnch(c)
    dicIneqIdeals4ACs.append(temp)
    listIneqACs.append(ideals2ACs(temp))
```


B

0

1

11

01

B

0

1

2

3

1111

0111

0111

0001

B

0

1

2

3

4

5

6

7

11111111

01111111

01111111

00011111

01111111

00110111

01010111

00000001

B

0

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

1111111111111111

0111111111111111
0111111111111111
0001111111111111
0111111111111111
0011011111111111
0101011111111111
0000000111111111
0111111111111111
0011111011111111
0101111011111111
0000111100011111
0111011101111111
0011001100110111
0101010101010111
0000000000000001

B

- 0
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10

0000000111111111111111111111111111
0111111111111111111111111111111111
0011111011111111111111111111111111
0101111011111111111111111111111111
0000111100011111111111111111111111
0111011101111111111111111111111111
0011001100110111111111111111111111
0101010101010111111111111111111111
0000000000000001111111111111111111
0111111111111111111111111111111111
0011111111111111011111111111111111
0101111111111111011111111111111111
0000111111111111000111111111111111
0111011111111111011111111111111111
0011001111111111001101111111111111
0101010111111111010101111111111111
0000000011111111000000011111111111
0111111011111111011111111111111111
0011111100111111001111110111111111
0101111101011111010111110111111111
00001111000011110000111100011111111
0111011101110111011101110111111111
001100110011001100110011001101111111
0101010101010101010101010101011111
0000000000000000000000000000000001

B

0

1

2

3

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0111

0111

000111

0111

00110111

01010111

00000011

0111

0011111011

0101111011

00001111000111

011101110111

0011001100110111

0101010101010111

000000000000000111

0111

00111111111111110111

01011111111111110111

0000111111111111000111

01110111111111110111

001100111111111110011011

0000111111111111000011111111111100001111111111110001111111111111
0111011111111111011101111111111101110111111111111011111111111111
0011001111111111001100111111111100110011111111110011011111111111
0101010111111111010101011111111101010101111111110101011111111111
0000000011111111000000001111111100000000111111110000000111111111
011111101111111011111110111111011111101111110111111011111111111111
001111100111111001111100111110011111001111100111110011111011111111
010111101011111010111110101111010111101011110101111010111101111111
0000111100001111000011110000111100001111000011110000111100011111
01110111011101110111011101110111011101110111011101110111011111111
00110011001100110011001100110011001100110011001100110011001100110111
0111
0001

1 2
2 3
3 5
4 10
5 30
100
200
6 233

CPU times: user 13.2 s, sys: 200 ms, total: 13.4 s
Wall time: 14.2 s

```
In [355]: [item for sublist in dicIneqACs[3] for item in sublist]
```

```
Out[355]: [0,  
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In [349]: dicIneqIdeals4ACs[2]
```

```
Out[349]: {1: {1}, 23: {23}, 31: {31, 55, 87}, 127: {127}, 255: {255}}
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```
In [350]: dicIneqACs[2]
```

```
Out[350]: [[0], [1, 2, 4], [3, 4], [3, 5, 6], [7]]
```

```
In [351]: dicIneqIdeals4ACs[1]
```

```
Out[351]: {1: {1}, 7: {7}, 15: {15}}
```

```
In [352]: dicIneqACs[1]
```

```
Out[352]: [[0], [1, 2], [3]]
```

```
In [353]: dicIneqIdeals4ACs[0]
```

```
Out[353]: {1: {1}, 3: {3}}
```

```
In [354]: dicIneqACs[0]
```

```
Out[354]: [[0], [1]]
```

```
In [356]: listIneqACs=dicIneqACs[:]
```

```
In [360]: idx=0
dicsIneqACs=[]
for l in dicIneqIdeals4ACs:
    d={}
    for i in l:
        d[tuple(findMax(i))]=len(l[i])
    dicsIneqACs.append(d)
    idx+=1
```

```
In [361]: dicsIneqACs
```

```

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