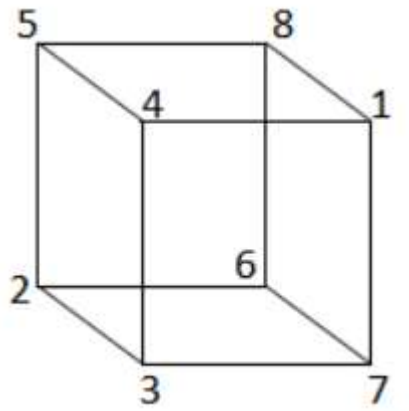
y: function number



K=0, obviously y = 1

K=1: ie: linearly separable when set vertex(1) = 1

There are 8 vertex, so y = 8

K=2: ie: linearly separable when vertex(1) = 1 && vertex(4)=1

There are 12 edges, so y = 12

K=3: ie: linearly separable when vertex(1) = 1 && vertex(4)=1 && vertex(7)=1

Each side there is 4 combinations and there are 6 sides, so y = 4*6=24

K=4: ie: (1) linearly separable when vertex(1) = 1 && vertex(4)=1 && vertex(7)=1 && vertex(3)=1

There are 6 sides, so y1 = 6

(2)) Also linearly separable when vertex(1) = 1 && vertex(4)=1 && vertex(7)=1 && vertex(8)=1

There are 8 vertex, so y2= 8

So, totally y=y1+y2=14 when k=14

Beside, y(k=0) = y(k=8), y(k=1) = y(k=7), y(k=2) = y(k=6), y(k=3) = y(k=5).

So , finally y = 1*2 + 8*2 + 12*2 + 24*2 + 14 =104.