

$A[i] == 1$   
 $A[i] = 1$  16

$A[] \rightarrow [0 \ 1 \ 1 \ 0]$

$A[i] = 1$ ;  $i$  invited

int  $m \rightarrow$  32 bit  
 31 30 ...

if  $(m \& (1 \ll i)) \neq 0$   $\Rightarrow$   $i$  invited

$A[p] == 1?$

mask p-th bit?  
 $\dots 101001$   
 $\dots 10000$   
 $\dots 001$

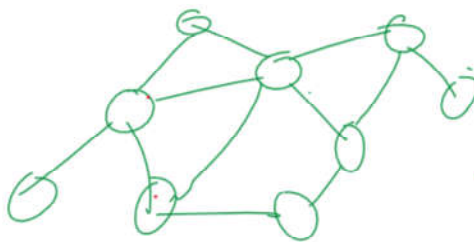
$p = 4$

$\rightarrow ((m \gg p) \& 1)$   
 $\rightarrow (m \& (1 \ll p)) \neq 0$

KnapSack

$W$

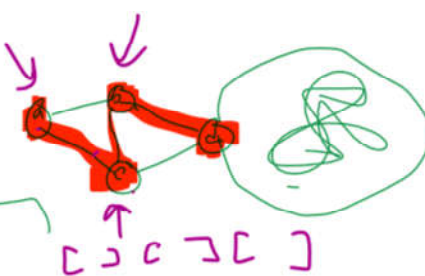
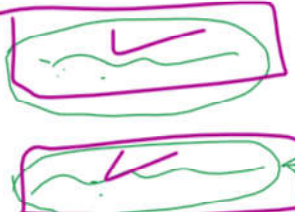
abcde+gh  
 acbdefgh



$m! \cdot m$   
 a b c d e  
 a b c e d  
 $\rightarrow$  a b d c e

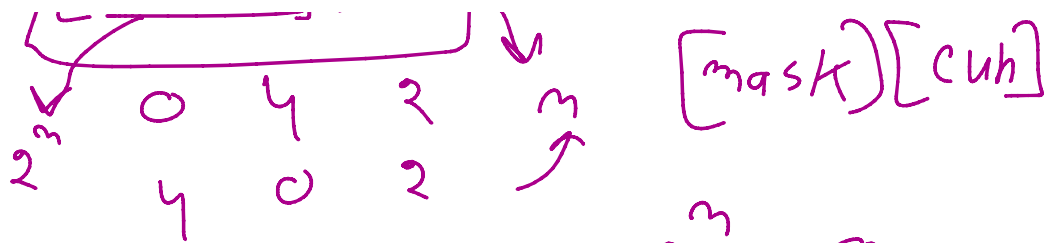
$y + \square$   
 $y +$

abcd  
 acbd



$[010101][2]$

bitmask  
 $[mask][ch]$



1 2 3 4 5  
 a b c  
 c a b

