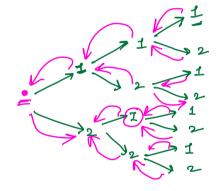
Backtracking: finding all solution by exploring all possible comdidates.

1) Find all n digit number which can be custed by I or 2.

paismelis

i, n, ano[n]



1	11
1	12
1	21
7	22
2	1 1
2	12
2	21
2	22

findall ( ant i, int n, wit aw [1)

if ( 
$$i = = n$$
) i pent (aee); return } (2)

and [i] = 1;

fundall (  $i \neq 1$ , n, and); (2)

fundall (  $i \neq 1$ , n, and); (3)

fundall (  $i \neq 1$ , n, and); (4)

fundall (  $i \neq 1$ , n, and); (4)

fundall ( 1, 3, and);

and [i] = 1

fundall ( 2, 3, and); fundall ( 2, 3, ard)

fundall ( 3, 3, and); fundall ( 3, 2, and); fundall ( 3, 2, and); fundall ( 3, 2, and);

1 11

The second of the content of the conten

```
findall ( int i, int n, int am [1))
if(i==n) \ d pent(aee); return) \ d
for(int j=1; j < S; j+t)
d ans [i]=j;
fundall(i+1, n, ans);
d
```

along of some N, no of subsets with sum = k.

$$\begin{cases}
5 & -a & 9 & 1 \\
0 & 1 & 0 & 1
\end{cases}$$
quesate all subsets with sum = k.

$$\begin{cases}
5 & -a & 9 & 1 \\
0 & 1 & 0 & 1
\end{cases}$$
quesate all subsets with sum = k.

$$\begin{cases}
5 & -a & 9 & 1 \\
5 & -a & 9
\end{cases}$$

$$\begin{cases}
5 & -a & 9 & 1 \\
5 & -a & 9
\end{cases}$$

$$\begin{cases}
5 & -a & 9 & 1 \\
5 & -a & 2
\end{cases}$$

$$\begin{cases}
5 & -a & 9 & 1 \\
5 & -a & 2
\end{cases}$$

$$\begin{cases}
5 & -a & 9 & 1 \\
5 & -a & 2
\end{cases}$$

$$\begin{cases}
5 & -a & 9 & 1 \\
5 & -a & 2
\end{cases}$$

$$\begin{cases}
5 & -a & 9 & 1 \\
5 & -a & 2
\end{cases}$$

$$\begin{cases}
5 & -a & 9 & 1 \\
5 & -a & 2
\end{cases}$$

$$\begin{cases}
5 & -a & 9 & 1 \\
5 & -a & 2
\end{cases}$$

$$\begin{cases}
5 & -a & 9 & 1 \\
5 & -a & 2
\end{cases}$$

$$\begin{cases}
5 & -a & 9 & 1 \\
5 & -a & 2
\end{cases}$$

$$\begin{cases}
5 & -a & 9 & 1 \\
5 & -a & 2
\end{cases}$$

$$\begin{cases}
5 & -a & 9 & 1 \\
5 & -a & 2
\end{cases}$$

$$\begin{cases}
5 & -a & 9 & 1 \\
5 & -a & 2
\end{cases}$$

$$\begin{cases}
5 & -a & 9 & 1 \\
5 & -a & 2
\end{cases}$$

$$\begin{cases}
5 & -a & 9 & 1 \\
5 & -a & 2
\end{cases}$$

$$\begin{cases}
5 & -a & 9 & 1 \\
5 & -a & 2
\end{cases}$$

$$\begin{cases}
5 & -a & 2 & 1 \\
5 & -a & 2
\end{cases}$$

$$\begin{cases}
5 & -a & 2 & 1 \\
5 & -a & 2
\end{cases}$$

$$\begin{cases}
5 & -a & 2 & 1 \\
5 & -a & 2
\end{cases}$$

$$\begin{cases}
5 & -a & 2 & 1 \\
5 & -a & 2
\end{cases}$$

$$\begin{cases}
5 & -a & 2 & 1 \\
5 & -a & 2
\end{cases}$$

$$\begin{cases}
5 & -a & 2 & 1 \\
5 & -a & 2
\end{cases}$$

$$\begin{cases}
5 & -a & 2 & 1 \\
5 & -a & 2
\end{cases}$$

$$\begin{cases}
5 & -a & 2 & 1 \\
5 & -a & 2
\end{cases}$$

$$\begin{cases}
5 & -a & 2 & 1 \\
5 & -a & 2
\end{cases}$$

$$\begin{cases}
5 & -a & 2 & 1 \\
5 & -a & 2
\end{cases}$$

$$\begin{cases}
5 & -a & 2 & 1 \\
5 & -a & 2
\end{cases}$$

$$\begin{cases}
5 & -a & 2 & 1 \\
5 & -a & 2
\end{cases}$$

$$\begin{cases}
5 & -a & 2 & 1 \\
5 & -a & 2
\end{cases}$$

$$\begin{cases}
5 & -a & 2 & 1 \\
5 & -a & 2
\end{cases}$$

$$\begin{cases}
5 & -a & 2 & 1 \\
5 & -a & 2
\end{cases}$$

$$\begin{cases}
5 & -a & 2 & 1 \\
5 & -a & 2
\end{cases}$$

$$\begin{cases}
5 & -a & 2 & 1 \\
5 & -a & 2
\end{cases}$$

$$\begin{cases}
5 & -a & 2 & 1 \\
5 & -a & 2
\end{cases}$$

$$\begin{cases}
5 & -a & 2 & 1 \\
5 & -a & 2
\end{cases}$$

$$\begin{cases}
5 & -a & 2 & 1 \\
5 & -a & 2
\end{cases}$$

$$\begin{cases}
5 & -a & 2 & 1 \\
5 & -a & 2
\end{cases}$$

$$\begin{cases}
5 & -a & 2 & 1 \\
5 & -a & 2
\end{cases}$$

$$\begin{cases}
5 & -a & 2 & 1 \\
5 & -a & 2
\end{cases}$$

$$\begin{cases}
5 & -a & 2 & 1 \\
5 & -a & 2
\end{cases}$$

$$\begin{cases}
5 & -a & 2 & 1 \\
5 & -a & 2
\end{cases}$$

$$\begin{cases}
5 & -a & 2 & 1 \\
5 & -a & 2
\end{cases}$$

$$\begin{cases}
5 & -a & 2 & 1 \\
5 & -a & 2
\end{cases}$$

$$\begin{cases}
5 & -a & 2 & 1 \\
5 & -a & 2
\end{cases}$$

$$\begin{cases}
5 & -a & 2 & 1 \\
5 & -a & 2
\end{cases}$$

$$\begin{cases}
5 & -a & 2 & 1 \\
5 & -a & 2
\end{cases}$$

$$\begin{cases}
5 & -a & 2 & 1 \\
5 & -a & 2
\end{cases}$$

$$\begin{cases}
5 & -a & 2 & 1 \\
5 & -a & 2
\end{cases}$$

$$\begin{cases}
5 & -a & 2 & 1 \\
5 & -a & 2
\end{cases}$$

$$\begin{cases}
5 & -a & 2 & 1 \\
5 & -a & 2
\end{cases}$$

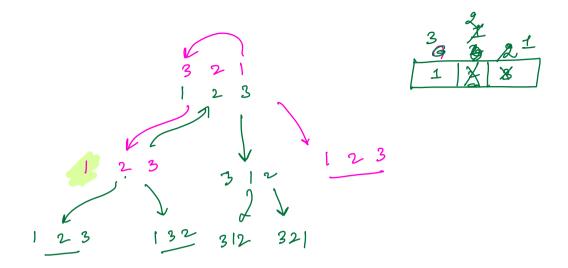
$$\begin{cases}
5 & -a & 2$$

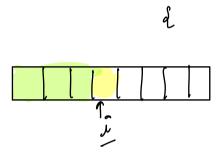
j

find all subsets if elements one unique list of lest = final list Jan genallsub ( mt i, nil n, int all s, lest) if ( == n) { finallist. moet (lost); lest insert ( au ( i)); genallab ( i+1, n, all, list); list. remove from end (); genouse( iti, n, all i (ist)); j

.

unique intépers, find all permutations n n-1 n-2 52341 21345





void genall per ( ent i, ent n, int aer ( ))

 $\tilde{u}_{j}(\tilde{u}==n) \text{ if finallist o coset}(au); j$ 

for ( j= i) j<n; j++) of (j[=i hr auli]==aulj) contine;

swap (aulj1, auli);

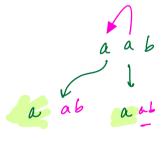
genal per ( i+1, n, ar);

Swap (aulj1, auli);

aab

aab baa

z



function (...) {

// base condition

Try all possibilités {

do
funct() recurrence coll

modo

g