<< Nth cycle-permutation >>

find next Nth cycle-permutation order start sequence with 0

::input

have 1000 sub-problem !!!
for every sub-problem

1st line : input 2 variant : $1 <= sz <= 20$, $0 <= shuf <= LONG\_LONG\_MAX$

2nd line : input sz varient : $INT\_MIN <= Ai <= INT\_MAX$

::output

for every sub-problem

1st line : #{first array} is permutation no. #{number of permutataion}

2nd line : #{ans array} is permutation no. #{number of permutataion} + #{shuf}

::example

```
4 0
1 2 3 4
4 1
1 2 3 4
4 1
1 4 3 2
4 19
1 4 3 2
4 23245672
1 4 3 2
...
```
more 995 sub-question

ANS :

4 0

1 2 3 4
// 1 2 3 4 is permutation no. 0
// 1 2 3 4 is permutation no. 0 + 0

4 1

1 2 3 4
// 1 2 3 4 is permutation no. 0
// 1 2 4 3 is permutation no. 0 + 1

4 1

1 4 3 2
// 1 4 3 2 is permutation no. 5
// 2 1 3 4 is permutation no. 5 + 1

4 19

1 4 3 2
// 1 4 3 2 is permutation no. 5
// 1 2 3 4 is permutation no. 5 + 19

4 23245672

1 4 3 2
// 1 4 3 2 is permutation no. 5
// 4 2 3 1 is permutation no. 5 + 23245672

...