## Short Select

ICPC has grown very big this year and 100 teams have put in their applications to appear for onsite event. The problem setters were also able to make 44 problems which can be selected for the onsite event. Moreover, they are very familiar with all the 100 teams and exactly know which team will be able to to solve which problem in the contest. They set a number $X$ which should be the minimum number of total accepted solutions with which they can call the contest to be successful. Help them to find the ways in which they can select 10 problems out of 44 such that the total number of accepted solutions are greater than or equal to the minimum number set by the judges.

## Note: There is only one testcase.

## Constraints

$0<=X<=10^{\wedge} 9$

## Input

First 100 lines contain a binary matrix 100 by 44 which denotes which problem is solved by which team in the contest. le if $A[i][j]=1$, it denotes that the ith team can solve jth problem. Next line contains a number $X$ which is the minimum number of accepted solutions that is required by the judges

## Output

Print a number which is the number of ways in which problem setters can select 10 problems out of 44 such that the total number of accepted solutions are greater than or equal to the number X set by them.

## Example

Input:
100000100000000000000000000000000000000000 0100000000000000000000000000000000000000000 00010000000000000000000000000000000000000 000000000000000000000000000000000000000000 00000000000000000000000000000000000000000 00001000000000000000000000000000000000000 000000000000000000000000000000000000000000 00000000000000000000000000000000000000000 000000000000000000000000000000000000000000 000001000000000000000000000000000000000000 00100000000000000000000000000000000000000 000000010000000000000000000000000000000000 00000000000000000000000000000000000000000 000000001000000000000000000000000000000000 0000000000100000000000000000000000000000000 000000000000000000000000000000000000000000 00000000001000000000000000000000000000000 00000000000000000000000000000000000000000 00000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000

000000000000000000000000000000000000000000 000000000000000000000000000000000000000000 000000000000000000000000000000000000000000 000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000 0000000000000000000000000000000000000000000 0000000000000000000000000000000000000000000 0000000000000000000000000000000000000000000 0000000000000000000000000000000000000000000 0000000000000000000000000000000000000000000 0000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000 0000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000 0000000000000000000000000000000000000000000 0000000000000000000000000000000000000000000 0000000000000000000000000000000000000000000 0000000000000000000000000000000000000000000 0000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000 11

## Output:

0

