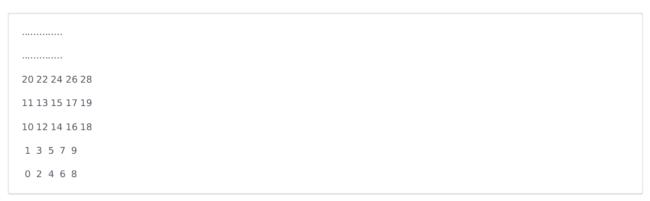
Strange Grid Again



A strange grid has been recovered from an old book. It has 5 columns and infinite number of rows. The bottom row is considered as the first row. First few rows of the grid are like this:



The grid grows upwards forever!

Your task is to find the integer in $m{c}^{ ext{th}}$ column in $m{r}^{ ext{th}}$ row of the grid.

Input Format

There will be two integers r and c separated by a single space.

Constraints

- $1 \le r \le 2 * 10^9$
- $1 \le c \le 5$

Rows are indexed from bottom to top and columns are indexed from left to right.

Output Format

Output the answer in a single line.

Sample Input

6 3

Sample Output

25

Explanation

The number in the 6th row and 3rd column is 25.