Search In Matrix

Input file:	`standard input`
Output file:	`standard output`
Time limit:	2 seconds
Memory limit:	64 megabytes

Given two numbers N and M, a 2D array of size $N * M$ and a number X. Determine whether X **exists** in the 2D array A or **not**.

Input

First line contains two numbers N, M $(2 \leq N, M \leq 100)$ N donates number of rows and M donates number of columns.

Each of the next N lines will contain M numbers $(1 \leq A_i \leq 10^5)$.

Last line contains a number X $(0 \leq X \leq 10^5)$ described above.

Output

Print "**will take number**"if the number **doesn't exist** in the 2D array otherwise, print "**will not take number**".

Examples

standard input	standard output
2 2 1 2 3 4 3	will not take number
2 2 1 2 3 4 10	will take number