

Problem B. Hyper-minimum

Input file: hyper.in
 Output file: hyper.out
 Time limit: 2 seconds
 Memory limit: 256 megabytes
 Detailed Feedback: none

There is a 4-dimensional array X , each index of which is in interval from 1 to N . Your task is to construct new 4-dimensional array Y , elements of which can be calculated using the next formula: $Y[i_1, i_2, i_3, i_4] = \min(X[j_1, j_2, j_3, j_4])$, where $1 \leq i_k \leq N - M + 1, i_k \leq j_k \leq i_k + M - 1$, and M is given.

Input

First line of the input file contains N and M ($1 \leq M \leq N$). Next lines of the input file contain elements of array X . The number of elements will be not more than 1500000 and elements will be integers not exceeding 10^9 by absolute value. They are given in such order, that the array can be read using following pseudocode:

```
for i = 1 to N:
  for j = 1 to N:
    for k = 1 to N:
      for l = 1 to N:
        read X[i, j, k, l]
```

Output

Output array Y in the same format as the X was given.

Examples

hyper.in	hyper.out
1 1 1	1
3 2 3 1 4 -4 0 4 0 0 -3 0 -2 -5 5 3 5 -4 4 -3 -5 -4 -4 5 -1 0 -3 -2 -1 2 -5 -5 -1 1 1 -4 3 5 3 -3 -3 3 0 1 4 -1 -2 3 -2 5 4 -1 -5 3 -4 0 -3 -1 3 -1 4 4 -1 -5 -3 4 -4 5 1 5 -4 3 2 2 -2 -2 4 2 -4 -3 1 3 1	-5 -5 -4 -3 -5 -5 -4 -5 -5 -5 -5 -5 -4 -5 -4 -5