

Find kth element of spiral matrix

Given a matrix with **n** rows and **m** columns. Your task is to find the **kth** element which is obtained while traversing the matrix spirally. You need to complete the method **findK** which takes four arguments the first argument is the matrix **A** and the next two arguments will be **n** and **m** denoting the size of the matrix A and then the forth argument is an integer **k**. The function will return the kth element obtained while traversing the matrix spirally.

Example 1:

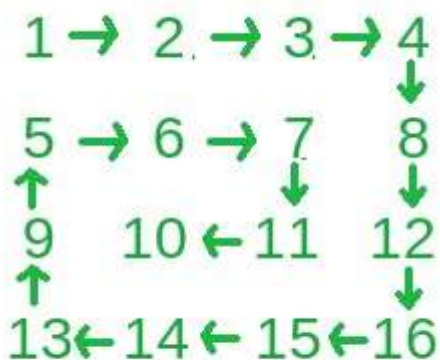
Input:

```
n = 4, m = 4, k = 10  
A[][] = {{1  2  3  4},  
          {5  6  7  8},  
          {9  10 11 12},  
          {13 14 15 16}}
```

Output:

13

Explanation:



The spiral order of matrix will look like 1->2->3->4->8->12->16->15->14->13->9->5->6->7->11->10. So the 10th element in this order is 13.

Example 2:

Input:

```
n = 3, m = 3, k = 4
A[][] = {{1 2 3},
          {4 5 6},
          {7 8 9}}
```

Output:

6

Explanation:

The spiral order of matrix will look like 1->2->3->6->9->8->7->4->5. So the 4th element in this order is 6.

Your Task:

You only need to implement the given function **findK()**. Do not read input, instead use the arguments given in the function. Return the K'th element obtained by traversing matrix spirally.

Expected Time Complexity: $O(n*m)$

Expected Auxiliary Space: $O(n*m)$

Constraints:

$1 \leq n, m \leq 10^3$

$1 \leq k \leq n*m$