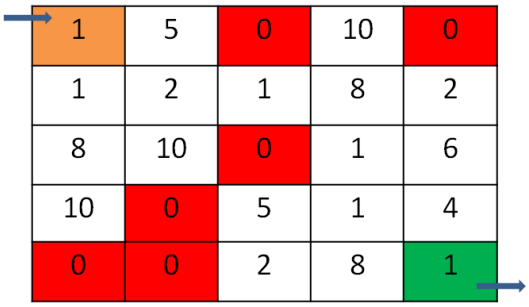
Tom goes on a journey. He starts at the top left corner and has to reach the bottom right corner. He can move only right and down side. ‘0’ represents the block that he can’t cross. ‘1’ represents the path he can move. Numbers other than ‘1’ and ‘0’ represents the treasure. Tom wants to know the best path he can take such that at the end of his journey he has collected the maximum treasures.

Input Format

First line contains 2 space seperated integers m(rows),n(columns) m lines follow, with n space seperated integers signifing the map



Constraints

0 < m < 100
0 < n < 100

Output Format

Print the maximum sum of treasures after Tom completes his journey

Sample Input 0

```
5 5
1 5 0 10 0
1 2 1 8 2
8 10 0 1 6
10 0 5 1 4
0 0 2 8 1
```

Sample Output 0

```
27
```

Explanation 0

r=right, d=down
The best path Tom can take is:
start->r->d->r->r->r->d->d->d->stop
1->5->2->1->8->2->6->4->1

5+2+8+2+6+4 = 27