

Kth element in Matrix

找到矩阵中第k小的元素

采用大根堆

```
#include <bits/stdc++.h>

using namespace std;

int kthSmallest(vector<vector<int>> &matrix, int &n, int &k) {
    priority_queue<int, vector<int>, greater<>> q;
    for (int i = 0; i < n; ++i) {
        for (int j = 0; j < n; ++j) {
            q.push(matrix[i][j]);
        }
    }
    while (k != 1) {
        q.pop();
        k--;
    }
    return q.top();
}

int main() {
    vector<vector<int>> matrix = {{16, 28, 60, 64},
                                   {22, 41, 63, 91},
                                   {27, 50, 87, 93},
                                   {36, 78, 87, 94}};

    int n = 4, k = 3;
    printf("%d\n", kthSmallest(matrix, n, k));
}
```