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406410114 UVA10908 Largest Square
// test num T,
// M ,N ,Q \rightarrow [M][N], Q line r and c
#include <bits/stdc++.h>
using namespace std;
int largest_square( vector < vector <char> > grid,int m,int n ,int r,int c ){
        int i,j,k;
        //3 5
        int result = 1,test = 0;
        bool end = false;
        char ch = grid[r][c];
        // 3,5 4,6 5,7 6,8 7,9
        //2 [r-1][c-1],[r][c-1],[r-1][c],[r][c]
        //3 2, [r+1][c-1],[r+1][c],[r+1][c+1],[r-1][c+1],[r][c+1]
        while ( end == false ) {
                //cout << "test: "<<test <<endl;
                if ( r+test >m-1 || c+test >n-1 || r-test <0 || c-test <0 )
                        return test*2-1;
                for ( i = r-test; i \le r+test; i++) {
                        for( j = c-test ; j <= c+test ; j++ ){
                                if ( grid[i][j] != ch ) {
                                         //cout << "grid[" <<i<<"]["<<j<<"] != ch \n";
                                         return test*2-1;
                                }//if
                        }//for
                }//for
                test++;
        }//while
}//largest_square
int main(){
        int i,j,k;
        int t,m,n,q;
        cin >> t;
        while ( t-- ) {
                cin >> m >>n >>q;
                vector < vector <char> > grid;
                vector <char> temp;
                for (j = 0; j < m; j++) {
                        temp.clear();
                        for (i = 0; i < n; i++){
                                char ch;
                                cin >> ch;
                                temp.push_back(ch);
                        }//for
                        grid.push_back(temp);
                }//for
                cout << m << " "<< n << " " << q <<endl;
                while ( q-- ) {
                        int r,c;
                        cin >>r >>c;
                        cout << largest square( grid,m,n ,r,c ) <<endl;</pre>
                }//while
        }//while
        return 0;
}//main
```