数塔问题，题目参见这里，入门级动态规划问题，代码如下：

```cpp
#include<iostream>
#include<cstdio>
#include<algorithm>
#include<cstring>
using namespace std;
const int MAX = 105;
int dp[MAX][MAX];
int num[MAX][MAX];

int main(){
    //freopen("data.txt", "r", stdin);
    int c;
    cin >> c;
    while(c--){
        memset(dp, 0, sizeof(dp));
        int n;
        cin >> n;
        for(int i = 1; i <= n; i++){
            for(int j = 1; j <= i; j++){
                cin >> num[i][j];
                dp[i][j] = max(dp[i-1][j-1], dp[i-1][j]) + num[i][j];
            }
        }
        sort(dp[n],dp[n]+n+1);
        cout << dp[n][n] << endl;
    }

    return 0;
}
```