```cpp
1   #include<iostream>
2   #include<string.h> // <memset>
3   using namespace std;
4
5   int main()
6   {
7       ios_base::sync_with_stdio(false);
8       int t,dimension_array;;
9       cin >> t;
10      int a[101][101];
11      while(t--)
12      {
13
14          cin >> dimension_array;
15          memset(a,0,sizeof(a));
16          int itr,x,y;
17          for(int i=1; i<=dimension_array; i++)
18          {
19              itr = i;
20              y=0;
21              while(itr--)
22              {
23                  cin>>a[i-1][y++];
24              }
25          }
26          for(int i=dimension_array-2; i>=0; i--)
27          {
28              for(int j=dimension_array-1; j>=0; j--)
29              {
30                  if(a[i+1][j+1]>a[i+1][j])
31                      a[i][j] += a[i+1][j+1];
32                  else
33                      a[i][j] += a[i+1][j];
34              }
35          }
36          cout << a[0][0] << "\n";
37
38      }
39  }
```