Maximum sum increasing subsequence

LIS(最长递增子序列)

sumOfLIS

只需要将dp从表示长度改为表示和即可

```
#include <bits/stdc++.h>
using namespace std;
int sumOfLIS(vector<int> &arr, int &N) {
    vector<int> dp(N, 0);
   for (int i = 0; i < N; ++i) {
        dp[i] = arr[i];
    int maxSum = dp[0];
    for (int i = 1; i < N; ++i) {
        for (int j = 0; j < i; ++j) {
            if (arr[i] > arr[j] && dp[j] + arr[i] > dp[i])
                dp[i] = dp[j] + arr[i];
        maxSum = max(dp[i], maxSum);
    return maxSum;
}
int main() {
   int T;
   scanf("%d", &T);
   while (T--) {
        int N, num;
```

```
vector<int> arr;
    scanf("%d", &N);
    for (int i = 0; i < N; ++i) {
        scanf("%d", &num);
        arr.push_back(num);
    }
    printf("%d\n", sumOfLIS(arr, N));
}
return 0;
}</pre>
```