

```

1  #include <bits/stdc++.h>
2  using namespace std;
3  #define ll long long
4  #define inf (int)1e9
5  #define inf18 1e18
6
7  Maximum subArray sum:
8  int n;
9  vector<ll> a(100100);
10
11 int maxSubArray(){
12     ll last = -inf18 , ans = -inf18;
13     for(int i = 0; i < n; i++){
14         last = max(last+a[i] , a[i]);
15         ans = max(ans , last);
16     }
17     return ans;
18 }
19
20 //with index of the segment
21 int maxSubArray(){
22     ll last = -inf18 , ans = -inf18;
23     int start = 0, end = -1, f = 0;
24     for (int i = 0; i < n; i++){
25         if (last + a[i] < a[i])
26             f = i;
27         last = max(last + a[i], a[i]);
28         if (last > ans)
29             {
30                 ans = last;
31                 start = f;
32                 end = i;
33             }
34     }
35     return ans;
36 }

```