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Game Of Rotation

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Problem

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Status: **Accepted**

Test Case #0



Test Case #1



Test Case #2



Test Case #3



Test Case #4



Test Case #5



Test Case #6



Test Case #7



Test Case #8



Test Case #9



Test Case #10



Test Case #11



Test Case #12



Test Case #13



Test Case #14



Test Case #15

Submitted Code

Language: C++

 Open in editor

```
1 // 3
2 // 20 30 10
3 // Number on top can be written in these manners.
4 // Initial numbers on belt, 20 30 10 PMEAN = 1x20 + 2x30 + 3x10 = 110
5 // After first rotation, 30 10 20 PMEAN = 1x30 + 2x10 + 3x20 = 110
6 // After second rotation, 10 20 30 PMEAN = 1x10 + 2x20 + 3x30 = 140
7 // So maximum possible value will be 140.
8
9
10
11
12
13
14
15
16 #include<bits/stdc++.h>
17 #include <iostream>
18 using namespace std;
19
20 int main() {
21
22     long long int n,i;
23     cin>>n;
24     long long int arr[n];
25     for(i=0 ; i< n ; i++)
26         cin>>arr[i];
27     long long summation_of_all = 0,prodof_all=0;
28     for(i=0 ; i< n ; i++)
29     {
30         summation_of_all=summation_of_all+ arr[i];
31         prodof_all += (i+1)*arr[i];
32     }
33     long long output = prodof_all;
```

```
34     for(i=0 ; i< n; i++)
35     {
36         prodof_all -= summation_of_all;
37         prodof_all +=arr[i]*n;
38         /* when the array is i rotated, then new summation will be reduced to previous-summation of
all .Because everyone reduced by one multiplication and new multiplication will be a[i]*n , as it will
be rotated */
39         output=max(prodof_all,output);
40     }
41     cout<<output<<endl;
42     return 0;
43 }
```

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