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# Left Rotation

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

## Submitted Code

Language: C++

Open in editor

```
1 #include <bits/stdc++.h>
2
3 using namespace std;
4
5 string ltrim(const string &);
6 string rtrim(const string &);
7 vector<string> split(const string &);
8
9 /*
10  * Complete the 'rotateLeft' function below.
11  *
12  * The function is expected to return an INTEGER_ARRAY.
13  * The function accepts following parameters:
14  * 1. INTEGER d
15  * 2. INTEGER_ARRAY arr
16  */
17
18 vector<int> rotateLeft(int d, vector<int> arr) {
19     vector<int> rotatedArr = arr; // initializing rotated array and assigning it to arr
20     for (int i=0; i<d; i++){ // looping d times
21         int first_elem = rotatedArr[0]; // store the value of first element of arr in a variable
22         first_elem
23         rotatedArr.erase(rotatedArr.begin()); // removing first element from rotatedArr
24         rotatedArr.push_back(first_elem); // pushing the first element to the back of rotatedArr
25     }
26     return rotatedArr;
27 }
28
29 int main()
30 {
31     ofstream fout(getenv("OUTPUT_PATH"));
```

```
32     string first_multiple_input_temp;
33     getline(cin, first_multiple_input_temp);
34
35     vector<string> first_multiple_input = split(rtrim(first_multiple_input_temp));
36
37     int n = stoi(first_multiple_input[0]);
38
39     int d = stoi(first_multiple_input[1]);
40
41     string arr_temp_temp;
42     getline(cin, arr_temp_temp);
43
44     vector<string> arr_temp = split(rtrim(arr_temp_temp));
45
46     vector<int> arr(n);
47
48     for (int i = 0; i < n; i++) {
49         int arr_item = stoi(arr_temp[i]);
50
51         arr[i] = arr_item;
52     }
53
54     vector<int> result = rotateLeft(d, arr);
55
56     for (size_t i = 0; i < result.size(); i++) {
57         fout << result[i];
58
59         if (i != result.size() - 1) {
60             fout << " ";
61         }
62     }
63
64     fout << "\n";
65
66     fout.close();
67
68     return 0;
69 }
70
71 string ltrim(const string &str) {
72     string s(str);
73
74     s.erase(
75         s.begin(),
76         find_if(s.begin(), s.end(), not1(ptr_fun<int, int>(isspace)))
77     );
78
79     return s;
80 }
81
82 string rtrim(const string &str) {
83     string s(str);
84
85     s.erase(
86         find_if(s.rbegin(), s.rend(), not1(ptr_fun<int, int>(isspace))).base(),
87         s.end()
88     );
89
90     return s;
91 }
92
93 vector<string> split(const string &str) {
94     vector<string> tokens;
95
96     string::size_type start = 0;
97     string::size_type end = 0;
```

```
98
99     while ((end = str.find(" ", start)) != string::npos) {
100         tokens.push_back(str.substr(start, end - start));
101
102         start = end + 1;
103     }
104
105     tokens.push_back(str.substr(start));
106
107     return tokens;
108 }
109
```

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