Left Rotation

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Submitted Code

nguage: C++ Open in editor

```
#include <bits/stdc++.h>

using namespace std;

string ltrim(const string &);
string rtrim(const string &);
vector<string> split(const string &);

/*
 * Complete the 'rotateLeft' function below.
 *
 * The function is expected to return an INTEGER_ARRAY.
 * The function accepts following parameters:
 *  1. INTEGER d
 *  2. INTEGER_ARRAY arr
 */

vector<int> rotateLeft(int d, vector<int> arr) {
    vector<int> rotatedArr = arr; // initializing rotated array and assigning it to arr
    for (int i=0; i<d; i++){ // looping d times
        int first_elem = rotatedArr[0]; // store the value of first element of arr in a variable first_elem
        rotatedArr.erase(rotatedArr.begin()); // removing first element from rotatedArr
        rotatedArr.push_back(first_elem); // pushing the first element to the back of rotatedArr
    }
    return rotatedArr;
}

int main()
{
    ofstream fout(getenv("OUTPUT_PATH"));

```

```
    string first_multiple_input_temp;
    getline(cin, first_multiple_input_temp);

    vector<string> first_multiple_input = split(rtrim(first_multiple_input_temp));

    int n = stoi(first_multiple_input[0]);

    int d = stoi(first_multiple_input[1]);

    string arr_temp_temp;
    getline(cin, arr_temp_temp);

    vector<string> arr_temp = split(rtrim(arr_temp_temp));

    vector<int> arr(n);

    for (int i = 0; i < n; i++) {
        int arr_item = stoi(arr_temp[i]);

        arr[i] = arr_item;
    }

    vector<int> result = rotateLeft(d, arr);

    for (size_t i = 0; i < result.size(); i++) {
        fout << result[i];

        if (i != result.size() - 1) {
            fout << " ";
        }
    }

    fout << "\n";

    fout.close();

    return 0;
}

string ltrim(const string &str) {
    string s(str);

    s.erase(
        s.begin(),
        find_if(s.begin(), s.end(), not1(ptr_fun<int, int>(isspace)))
    );

    return s;
}

string rtrim(const string &str) {
    string s(str);

    s.erase(
        find_if(s.rbegin(), s.rend(), not1(ptr_fun<int, int>(isspace))).base(),
        s.end()
    );

    return s;
}

vector<string> split(const string &str) {
    vector<string> tokens;

    string::size_type start = 0;
    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
```