

1. Attribute Parser

Problem

Submissions

Leaderboard

Discussions

HackerRank

Prepare > C++ > Strings > Attribute Parser

This challenge works with a custom-designed markup language HRML. In HRML, each element consists of a starting and ending tag, and there are attributes associated with each tag. Only starting tags can have attributes. We can call an attribute by referencing the tag, followed by a tilde, '~' and the name of the attribute. The tags may also be nested.

The opening tags follow the format:

```
<tag-name attribute1-name = "value1" attribute2-name = "value2" ...>
```

The closing tags follow the format:

```
</tag-name>
```

The attributes are referenced as:

```
tag1~value
tag1.tag2~name
```

Given the source code in HRML format consisting of N lines, answer Q queries. For each query, print the value of the attribute specified. Print "Not Found!" if the attribute does not exist.

Example

```
HRML listing
<tag1 value = "value">
<tag2 name = "name">
<tag3 another="another" final="final">
</tag3>
```

<https://www.hackerrank.com/challenges/attribute-parser/submissions>

Change Theme Language

```
#include <bits/stdc++.h>
using namespace std;
int main()
{
    int n, q, i;
    cin >> n >> q;
    string temp;
    vector<string> hrml;
    vector<string> quer;
    cin.ignore();
    for(i=0; i<n; i++)
    {
        getline(cin, temp);
        hrml.push_back(temp);
    }
    for(i=0; i<q; i++)
    {
        getline(cin, temp);
        quer.push_back(temp);
    }
    map<string, string> m;
    vector<string> tag;
    for(i=0; i<n; i++)
    {
        temp = hrml[i];
        temp.erase(remove(temp.begin(), temp.end(), '"'), temp.end());
```

Line: 65 Col: 1

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Problem

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Discussions

This challenge works with a custom-designed markup language HRML. In HRML, each element consists of a starting and ending tag, and there are attributes associated with each tag. Only starting tags can have attributes. We can call an attribute by referencing the tag, followed by a tilde, '~' and the name of the attribute. The tags may also be nested.

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Example

```
HRML listing
<tag1 value = "value">
<tag2 name = "name">
<tag3 another="another" final="final">
</tag3>
</tag2>
</tag1>
```



You have earned 35.00 points!
31/44 challenges solved.

Congratulations

You solved this challenge. Would you like to challenge your friends?

- Test case 0
- Test case 1
- Test case 2
- Test case 3
- Test case 4
- Test case 5

Compiler Message

Success

Input (stdin)

```
4 3
<tag1 value = "HelloWorld">
<tag2 name = "Name1">
</tag2>
</tag1>
tag1.tag2~name
tag1~name
tag1~value
```

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2. Exception Handling

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HackerRank Prepare > C++ > Debugging > Cpp exception handling Exit Full Screen View

Problem

In this challenge, the task is to debug the existing code to successfully execute all provided test files.

You are required to extend the existing code so that it handles `std::invalid_argument` exception properly. More specifically, you have to extend the implementation of `process_input` function. It takes integer n as an argument and has to work as follows:

1. It calls function `largest_proper_divisor(n)`.
2. If this call returns a value without raising an exception, it should print in a single line `result=d` where d is the returned value.
3. Otherwise, if the call raises a `std::invalid_argument` exception, it has to print in a single line the string representation of the raised exception, i.e. its message.
4. Finally, no matter if the exception is raised or not, it should print in a single line `returning control flow to caller` after any other previously printed output.

To keep the code quality high, you are advised to have exactly one line printing `returning control flow to caller` in the body of `process_input` function.

Your function will be tested against several cases by the locked template code.

Input Format

The input is read by the provided locked code template. In the only line of the input, there is a single integer n , which is going to be the argument passed to function `process_input`.

Constraints

- $0 \leq n \leq 100$

Change Theme Language C++

```
#include <iostream>
#include <stdexcept>

using namespace std;

int largest_proper_divisor(int n) {
    if (n == 0) {
        throw invalid_argument("largest proper divisor is not defined for n=0");
    }
    if (n == 1) {
        throw invalid_argument("largest proper divisor is not defined for n=1");
    }
    for (int i = n/2; i >= 1; --i) {
        if (n % i == 0) {
            return i;
        }
    }
    return -1; // will never happen
}

void process_input(int n) {
    try {
        int d = largest_proper_divisor(n);
        cout << "result=" << d << endl;
    } catch (const invalid_argument& e) {
        cout << e.what() << endl;
    }
}
```

Line: 29 Col: 2

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Submissions

Leaderboard

Discussions

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Problem

Submissions

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Discussions

In this challenge, the task is to debug the existing code to successfully execute all provided test files.

You are required to extend the existing code so that it handles `std::invalid_argument` exception properly. More specifically, you have to extend the implementation of `process_input` function. It takes integer `n` as an argument and has to work as follows:

1. It calls function `largest_proper_divisor(n)`.
2. If this call returns a value without raising an exception, it should print in a single line `result=d` where `d` is the returned value.
3. Otherwise, if the call raises a `std::invalid_argument` exception, it has to print in a single line the string representation of the raised exception, i.e. its message.
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To keep the code quality high, you are advised to have exactly one line printing `returning control flow to caller` in the body of `process_input` function.

Your function will be tested against several cases by the locked template code.

Input Format

The input is read by the provided locked code template. In the only line of the input, there is a single integer `n`, which is going to be the argument passed to function `process_input`.

Constraints

- $0 \leq n \leq 100$



You have earned 20.00 points!
32/44 challenges solved.

Congratulations

You solved this challenge. Would you like to challenge your friends?

- Test case 0
- Test case 1
- Test case 2
- Test case 3
- Test case 4
- Test case 5
- Test case 6

Compiler Message

Success

Input (stdin)

0

Expected Output

largest proper divisor is not defined for n=0
returning control flow to caller

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3. Functions

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hackerrank.com/challenges/c-tutorial-functions/problem?isFullScreen=true

HackerRank

Prepare > C++ > Introduction > Functions

Problem

Functions are a bunch of statements glued together. A function is provided with zero or more arguments, and it executes the statements on it. Based on the return type, it either returns nothing (void) or something.

The syntax for a function is

```
return_type function_name(arg_type_1 arg_1, arg_type_2 arg_2, ...)
...
...
...
[if return_type is non void]
return something of type `return_type`;
}
```

For example, a function to return the sum of four parameters can be written as

```
int sum_of_four(int a, int b, int c, int d) {
    int sum = 0;
    sum += a;
    sum += b;
    sum += c;
    sum += d;
    return sum;
}
```

Write a function int max_of_four(int a, int b, int c, int d) which returns the maximum of the four arguments it receives.

Change Theme Language

```
#include <iostream>
#include <cstdio>
using namespace std;

int max_of_four(int a, int b, int c, int d)
{
    int data[]={a,b,c,d};
    int max = data[0];
    for(int i=1;i<=4;i++){
        if(max<data[i])
            max=data[i];
    }
    return max;
}

int main()
{
    int a, b, c, d;
    scanf("%d %d %d %d", &a, &b, &c, &d);
    int ans = max_of_four(a, b, c, d);
    printf("%d", ans);

    return 0;
}
```

Line: 24 Col: 2

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Problem

Functions are a bunch of statements glued together. A function is provided with zero or more arguments, and it executes the statements on it. Based on the return type, it either returns nothing (void) or something.

The syntax for a function is

```
return_type function_name(arg_type_1 arg_1, arg_type_2 arg_2, ...)
{
    ...
    ...
    ...
    [if return_type is non void]
    return something of type `return_type`;
}
```

For example, a function to return the sum of four parameters can be written as

```
int sum_of_four(int a, int b, int c, int d) {
    int sum = 0;
    sum += a;
    sum += b;
    sum += c;
    sum += d;
    return sum;
}
```

Write a function int max_of_four(int a, int b, int c, int d) which returns the maximum of the four arguments it receives.

Submissions

Leaderboard

Discussions



You have earned 10.00 points!
34/44 challenges solved.

Congratulations

You solved this challenge. Would you like to challenge your friends?

- Test case 0
- Test case 1
- Test case 2
- Test case 3
- Test case 4

Compiler Message

Success

Input (stdin)

1	3
2	4
3	6
4	5

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Expected Output

1	6
---	---

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