

Name and, if possible, ID#:

### Problem 3

Similar to files, strings also can be related to streams in C++, this time using *stringstream* objects. Particularly, it is enough to create an object of type *istringstream* to organize formatted reading from a string. Consider, for example, a C++ code below:

```
#include <string>
#include <sstream>
#include <iostream>
using namespace std;

void main()
{
    string text = "Before_increment: 199999999", word;
    int num;
    istringstream tokens(text);

    tokens >> word >> num;
    cout << "After " << word.substr(7) << num + 1 << endl;
}
// After increment:200000000
```

Write a C++ function *double value(string expression)* that takes as its argument a string representing an arithmetic expression, evaluates it and returns its value. The expression includes only '+' and '-' operations and double operands, both positive and negative. The operands and operations are delimited by spaces.

For example, *value("5.1 - 0.7 + 1.2")* results in 7.0.

String value = "5.1 - 0.7 + 1.2";

double num;

String word;

~~istringstream tokens(value);~~

istringstream tokens(value);

tokens >> word >> num;

~~If (word == "+")~~

while (word == "+" || word == "-")

If (word == "+")

sum = num + num.substr(4);

If (word == "-")

sum = num - num.substr(4);

I didn't have enough time to think  
 cuz I ~~was~~ take long to solve sub  
 To hope I can handle the correct one in 4th

Thank you.

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