TeamsCode Fall 2019 MIHS Programming Contest Judge Data

Problem List:

0. Sample Problem
Input File: sample.txt

Input:

```
4
5 5 5 5 5
1 2 3 2 1
0 0 0 0 0 0 0 0
5 6 7 2 9 3 2 1
```

Output:

```
25
9
0
35
```

1. Logo
Input File: logo.txt

Input:

None.

Output:

```
    /|
  _| |  _____
 \_   | |  __/
   | | | |__
   |_| |____\
  'TeamsCode'
```

2. Missing Prices
Input File: missingPrices.txt

Input:

```
3
X 8 200
24 X 30
2456 3 X
```

Output:

```
185.19
25.00
2529.68
```

3. Spanish Conjugations
Input File: spanishConjugations.txt

Input:

```
3
pasar
correr
ocurrir
```

Output:

```
Paso
Pasas
Pasa
Pasamos
Pasan
Corro
Corres
Corre
Corremos
Corren
Ocurro
Ocurres
Ocurre
Ocurrimos
Ocurren
```

4. Fancy Border
Input File: fancyBorder.txt

Input:

```
6
Welcome
To
The
MIHS
TeamsCode
Contest
```

Output:

```
\--*****--/
|Welcome  |
|To       |
|The      |
|MIHS     |
|TeamsCode|
|Contest  |
/--*****--\
```

5. Unit Conversion
Input File: unitConversion.txt

Input:

```
5
c 12
c 4637987
i 345
i 201
i 49
```

Output:

```
0 0 12
46 379 87
0 8 76
0 5 11
0 1 24
```

6. Itoa

Input File: itoa.txt

Input:

```
5
2  8  256
16  2  101101
5  16  2F6
12  12  A
2  16  BAD
```

Output:

```
10101110
2D
11013
A
101110101101
```

7. FizzBuzzBloop

Input File: fizzBuzzBloop.txt

Input:

```
5
22
4
2 Fizz
3 Buzz
7 Bloop
11 Carl
```

Output:

```
5
FizzBuzz
Bloop
Fizz
Buzz
Fizz
Carl
FizzBuzz
13
FizzBloop
Buzz
Fizz
17
FizzBuzz
19
Fizz
BuzzBloop
FizzCarl
```

8. Note Sorting
Input File: noteSorting.txt

Input:

```
8
4  A#
2  D
4  E
7  G#
3  F#
7  C
4  B
3  G
```

Output:

```
73
185
196
330
466
494
2093
3322
```

9. Coded Message
Input File: codedMessage.txt

Input:

1
2
3
5
4
6
7
19
13
10
11
12
9
14
15
16
17
18
28
20
21
22
23
24
25
26
27
8
9 13 19 28 8 20 4 1 9 28 3 15 5 4 27

Output:

mihs teamscode.

10. Mixing
Input FIle: mixing.txt

Input:

```
10 2 4
5 3
45 16
40 14
36 7
80 7
80 10
79 5
8 9
12 10
18 16
81 100
81 99
81 98
42 800
40 401
39 402
```

Output:

```
21
10
35
0
803
```

11. Stitching

Input File: stitching.txt

Input:

```
10 10
5 4
8 8
4 4
2 3
1 10
6 6
5 5
5 5
2 10
9 9
5 5
5 5
5 5
2 2
2 2
2 2
2 2
9 9
6 6
4 6
4 10
```

Output:

```
80
70
81
16
100
```

12. Esoteric

Input File: esoteric.txt

Input:

```
>+++++++++++++[<+>>>>>>>>++++++++++<<<<<<<-]>+++++[<+++++++++>-]+>>>>>>+[<<+++[>
>[-<]<[>]<-]>>[>+>]<[<[>]>[[-->>>+<<<<]>>>+++>-]<[<<<<]<<<<<<<<+[->>>>>>>>>[<+[
->>>>+<<<<]>>>>>]<<<<[>>>>>[<<<<+>>>>-]<<<<<-[<<++++++++++>>-]>>>[<<[<+<<+>>>-]<[>
+<-]<++<<+>>>>>>-]<<[-]<<-<[->>+<-[>>>]>[[<+>-]>+>>]<<<<<]>[-]>+<<<-[>>+<<-]<]<<<<
+>>>>>>>>[-]>[<<<+>>>-]<<++++++++++<[->>+<-[>>>]>[[<+>-]>+>>]<<<<<]>[-]>+>[<<+<+>>
>-]<<<<+<+>>[-[-[-[-[-[-[-[-[-<->[-<+<->>]]]]]]]]]]<[+++++[<<<+++++++++<++++++++>>>
>-]<<<<+<->>>>[>+<<<++++++++++<->>>-]<<<<<[>>+<<-]+<[->-<]>[>>.<<<<[+.[-]]>>-]>[>>.
<<-]>[-]>[-]>>>[>>[<<<<<<<+>>>>>>>-]<<-]]>>[-]<<<[-]<<<<<<<]++++++++++.end
```

Output:

3.14070455282885

13. Markdown
Input File: markdown.txt

Input:

```
=Sponsors=
*Platinum Sponsor:* [Sponsor Name](http://sponsor.com)
![Sponsor Logo](about_Sponsor.png)
==About Sponsor==
This sponsor provides many services to students, including preparations
for _this test_. For a more comprehensive list, look at this list:
* Service 1
* Service 2
* and of course *Service 3*
::Please Help Us by Checking Out Our Sponsors!::
*_Thank You!_*
```

Output:

```
<h1>Sponsors</h1>
<b>Platinum Sponsor:</b> <a href="http://sponsor.com">Sponsor Name</a>
<img src="about_Sponsor.png" alt="Sponsor Logo">
<h2>About Sponsor</h2>
This Sponsor provides many services to students, including preparations
for <i>this test</i>. For a more comprehensive list, look at this list:
<ul>
<li>Service 1</li>
<li>Service 2</li>
<li>and of course <b>Service 3</b></li>
</ul>
<blink>Please Help Us by Checking Out Our Sponsors!</blink>
<b><i>Thank You!</i></b>
```

14. Algebra
Input File: algebra.txt

Input:

```
5
x = 2 + 2 * 2
5 * x = 20 + 100 / 2
800 = x / 3 + 900
5 + 5 + 5 + 5 = 4 * x
4 + 4 * 4 + 3 / 3 = x * 9 + 3
```

Output:

```
6
14
-300
5
2
```

15. A Hike
Input File: ahike.txt

Input:

5
a b
b c
a d
b e
d e

Output:

21