# CS 1324 Spring 2021 Homework 12 Nested Loops

## Jordan McFadden

**TOTAL POINTS** 

# 20 / 20

#### **QUESTION 1**

# 1 Question 15/5

# √ - 0 pts Correct

- 1 pts first is not correct (aside from missing endpoint)
  - 0 pts Last value of first missing or extra value
- 2 pts values in second only repeat once or more than five times instead of three times
- 1 pts values in second only repeat twice or repeat four times, instead of three times
  - 0 pts Last value of second missing or extra value
  - 2 pts Product contains three or more errors
  - 1 pts Product contains one or two errors
  - 0 pts Arithmetic mistake
  - 5 pts Blank or incorrect
  - 3 pts Not an infinite loop

#### **QUESTION 2**

## 2 Question 2 5/5

# √ - 0 pts Correct

- 1 pts Two or more errors in count
- 0 pts count missing or extra value
- 1 pts Two or more errors in other
- 0 pts other missing or extra last value(s)
- 1 pts Two or more errors in data[other]
- 0 pts data[other] has a missing or extra value
- 1 pts Two or more errors in index
- 0 pts index missing or extra last value
- 1 pts Two or more errors in data[index]
- 0 pts data[index] has a missing or extra value
- **5 pts** Blank or incorrect
- 3 pts Not an infinite loop

# **QUESTION 3**

## 3 Question 3 5 / 5

# √ - 0 pts Correct

- 2 pts Two or more mistakes in sum
- 1 pts One mistake in sum
- 1 pts Two or more mistakes in first
- 0 pts Last value of first not included
- 2 pts Three or mores mistakes in second
- 1 pts One or two mistakes in second
- O pts Last value(s) in each iteration missing in

# second

- 3 pts Not an infinite loop
- 10 pts Blank or incorrect

#### **QUESTION 4**

## 4 Question 4 5 / 5

# √ - 0 pts Correct

- 5 pts Blank or incorrect
- 1 pts next missing three or more values (aside from missing endpoints)
- 0 pts next missing last value in each iteration
- 2 pts Two or more wrong values in data
- 1 pts One wrong value in data
- 2 pts minIndex two or more values missing or

# incorrect

- 1 pts minIndex has one value missing or incorrect
- **0 pts** temp incorrect or missing (other than missing last value)
  - 5 pts Blank or incorrect

# Homework 12: Nested Loops

CS 1323/4 Spring 2021

Name: Jordan McFadden

Student ID (usually 112-XXX-XXXX or 113-XXX-XXXX):

113502650

```
int product=1;
for (int first = 1; first < 4; ++first)
{
    for (int second = 1; second < 3; ++second)
      {
         product = product * second;
      }
}</pre>
```

1     1     1       2     2     1       3     3     2       4     1     2       2     4       1     8       2     3       3     4       4     1     8       2     3	t
3     3     2       4     1     2       2     4       3     4       1     8       2	
4     1     2       2     4       3     4       1     8       2	
2 4 3 4 1 8 2	
3 4 1 8 2	
1 8	
2	
3	

count	other	data[other]	index	data[index]
0	1	7	0	5
1	2	2	1	
2	3	4	2	5
3	4	1	3	5
4	5	6	4	5
5	6	2	5	7
	2	4	6	7
	3	1		7
	4	6		7
	5	4		2
	6	1		2
	3	6		2
	4	1		4
	5	6		4
	6	6		1
	4			
	5			
	6			
	5			
	6			
	6			

```
int sum = 0;
for(int first = 4; first > -3; --first)
{
    int second = 1;
    while (second < first)
    {
        sum = sum + first;
        ++second;
    }
}</pre>
```

sum	first	_
	1112	second
0	4	1
4	3	2
8	2	3
12	1	4
15	0	1
18	-1	2
20	-2	3
	-3	1
		2
		1
		1
		1
		1

data[0]	data[1]	data[2]	data[3]	data[4]	data[5]	index	minIndex	next	temp
7	1	5	2	6	4	0	0	1	7
1	7	5	2	6	4	1	1	2	7
1	2	5	7	6	4	2	1	3	5
1	2	4	7	6	5	3	2	4	7
1	2	4	5	6	7	4	3	5	6
1	2	4	5	6	7	5	2	6	
							5	2	
							3	3	
							4	4	
							5	5	
							4	6	
								3	
								4	
								5	
								6	
								4	
								5	
								6	
								5	
								6	