18.05.2023

Istanbul Technical University

Computer Engineering

BLG 102E - Int to Scientific&Eng.Computing (C)

Spring 2022-2023

Midterm 2

- Make sure your source code is compiled and linked successfully, and passed all the tests given with the questions before your submission.
- Remember to use –std=c99 –Wall –Werror flags while compiling with gcc.
- **Your codes will be checked with automated similarity checking tools among other submissions and web.**

Question 3: (Duration: 60 minutes)

Modify the code "m2q3.c" to accomplish the description below. Test your code with m2q3.t using calico (python -m calico.cli m2q3.t)

This program accepts a set of numbers from the user. The user needs to enter -1 to finish entering numbers. The user can enter at most 6 numbers. If the user enters more than 6 numbers, the program will only consider the first 6 numbers and prompt the user that maximum capacity is reached. Next, the program asks whether the user would like to print the even numbers or all the numbers from the provided number list. According to the user's choice, the program prints the appropriate set of numbers. Please find below a set of runs of this program and its corresponding output. The main function for this program is provided to you as part of this question. Please add the missing parts to make this code work.

Do not modify the main function. Please **add your code above the main function**. If you modify the main function, you **will get 0 points** from this question.

Some sample runs:

```
Enter your numbers (-1 to finish):
2
6
4
7
-1
What type of numbers would you print?
  > (0: for evens only, 1: for all numbers):
0
1. 2
2. 6
3. 4
```

```
Enter your numbers (-1 to finish):
2
6
4
7
-1
What type of numbers would you print?
  > (0: for evens only, 1: for all numbers):
1
1. 2
2. 6
3. 4
4. 7
```

```
Enter your numbers (-1 to finish):
2
6
4
7
9
8
Max capacity is reached! Cannot accept more numbers!
What type of numbers would you print?
  > (0: for evens only, 1: for all numbers):
1
1. 2
2. 6
3. 4
4. 7
5. 9
6. 8
```