

Ceng 344 Lab Questions

1-) Write a java program which adds up numbers of an array from left to right or vice versa.

Sample Run:

```
Enter 10 integers and order of summation: 13 2 17 46 51 24 78 9 11 82 left-to-right
Result: 13 15 32 78 129 153 231 240 251 333
```

```
Enter 10 integers and order of summation: 22 15 62 98 40 5 76 92 12 3 right-to-left
Result: 425 403 388 326 228 188 183 107 15 3
```

2-) Write a java program to calculate the parking fare for customers who park their vehicles in a parking lot. You will have a class that has some attributes:

Sample: Type(char), entertime(double), leavetime(double), price(double)

You are required to create a default constructor method.

You are required to create a ToString() method for output.

Prompt the user to enter following information:

1. Type of vehicle (C for car, B for Bus)
2. Hours Vehicle entered the lot (use integer between 0 and 24)
3. Hours vehicle left the parking lot (use integer between 0 and 24)

Below are the parking rates:

CAR: free for first 3 hours, \$1.50/hr after 3 hr

BUS: \$1.00/hr for first 2 hours, \$2.30/hr after 2 hr

Then calculate the bill for customer.

Sample Output:

Enter vehicle type, time entering parking lot, time leaving parking lot: **C 12 16**

Enter vehicle type, time entering parking lot, time leaving parking lot: **B 12 16**

Price of C: 1.5 \$

Price of B: 6.6 \$

3-) Write a java program in which the user enters an array of 26 letters and the program displays lengths of sequences of consecutive same letters.

```
Enter your letters: hhheeeelloooooowwooorllddd
Result: 3 4 2 6 2 3 1 2 3
```

```
Enter your letters: abcdefghijklmnopqrstuvwxyz
Result: 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
```

```
Enter your letters: eeeeeeeeeeeeeeeeeeeeeeeeeee
Result: 26
```

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