

Faculty of Engineering, University of Jaffna
Department of Computer Engineering
EC4070: Data Structures and Algorithms
Lab 08
Greedy Algorithms

Date: 4th January 2021

Duration: 3 hours

You are given a container full of water. Container can have limited amount of water. You also have N bottles to fill. You need to find the maximum numbers of bottles you can fill. Solve this problem using greedy approach.

Input:

First line contains two integer, N and X , number of bottles and capacity of the container.

Second line contains N space separated integers, capacities of bottles.

Output:

Print the maximum number of bottles you can fill.

Sample Input:

```
5 10
8 5 4 3 2
```

Sample Output:

```
3
```

Instructions:

1. You need to implement a java program to solve the given problem. Add your registration number as suffix to your class name.
2. You need to complete your program within 3 hours.
3. Create a zip file named 201x_E_xxx_L8 which contains all the Java classes and upload the zip file on/before given deadline via team.