Accenture Sections	Information	Questions and Time
Cognitive Ability	• English Ability • Critical Thinking and Problem Solving • Abstract Reasoning	50 Ques in 50 mins
Technical Assessment	• Common Application and MS Office • Pseudo Code • Fundamental of Networking, Security and Cloud	40 Ques in 40 mins
Coding Round	• C • C++ • Dot Net • JAVA • Python	2 Ques in 45 mins

DEBUG WITH SHUBHAM

Accenture Technical Assessment Detailed Overview

26-sep-2024 Coding Interview Questions


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Question-1

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1. Coding

Question 2

Revisit Later

How to Attempt?

File Version

You are given a string array **S** that contains the names of some files along with their versions. Your task is to find and return an integer value representing the latest version out of all the files that are correctly named in the array. A file is considered correct if it follows the format of the file named as "File_X" (where X represents the file version number). Return -1 if there are no correct files in the array.

Note:

- *A file is incorrect if the name of the file does not match the format.*
- *If there is no file in the files array then also return -1.*

Input Specification:

input1 : A string array S, representing the names of the files.
input2 : An integer value representing the size of the array.

Output Specification:

Return an integer value representing the latest version out of all the files that are correctly named in the array.

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1. Coding

Example 1:

input1 : {File_1,File_3,File_2}
input2 : 3

Output : 3

Explanation:
Here the given file array is {"File_1","File_3","File_2"}. As we can see, all the files are named using the correct file format of "File_Version". The second file has the greatest file version, which is 3. Hence, **3** is returned as the output.

Example 2:

input1 : {}
input2 : 0

Output : -1

Explanation:
Here the given file array is {}. As we can see, there are no files in the array. Hence, **-1** is returned as the output.

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Question-1

Python

main.py

```python
def find_latest_version(S: list, n: int) -> int:
    if n == 0:
        return -1
    max_version = -1
    for file_name in S:
        if file_name.startswith("File_"):
            sp = int(file_name.split("_")[1])
            max_version = max(max_version , sp)

    return max_version

input1 = ["File_5", "File_3", "File_2","File_1"]
input2 = 4
print(find_latest_version(input1, input2))
```

C++

main.cpp

Share Run

```cpp
#include <iostream>
#include <string>
#include <vector>
#include <algorithm>
int findLatestVersion(const std::vector<std::string>& S, int n) {
    if (n == 0) {
        return -1;
    }
    int maxVersion = -1;
    for (const auto& fileName : S) {
        if (fileName.rfind("File_", 0) == 0) {
            int sp = std::stoi(fileName.substr(5));
            maxVersion = std::max(maxVersion, sp);
        }
    }
    return maxVersion;
}
int main() {
    std::vector<std::string> input1 = {"File_5", "File_3", "File_2",
        "File_1"};
    int input2 = 4;
    std::cout << findLatestVersion(input1, input2) << std::endl;
    return 0;
}
```

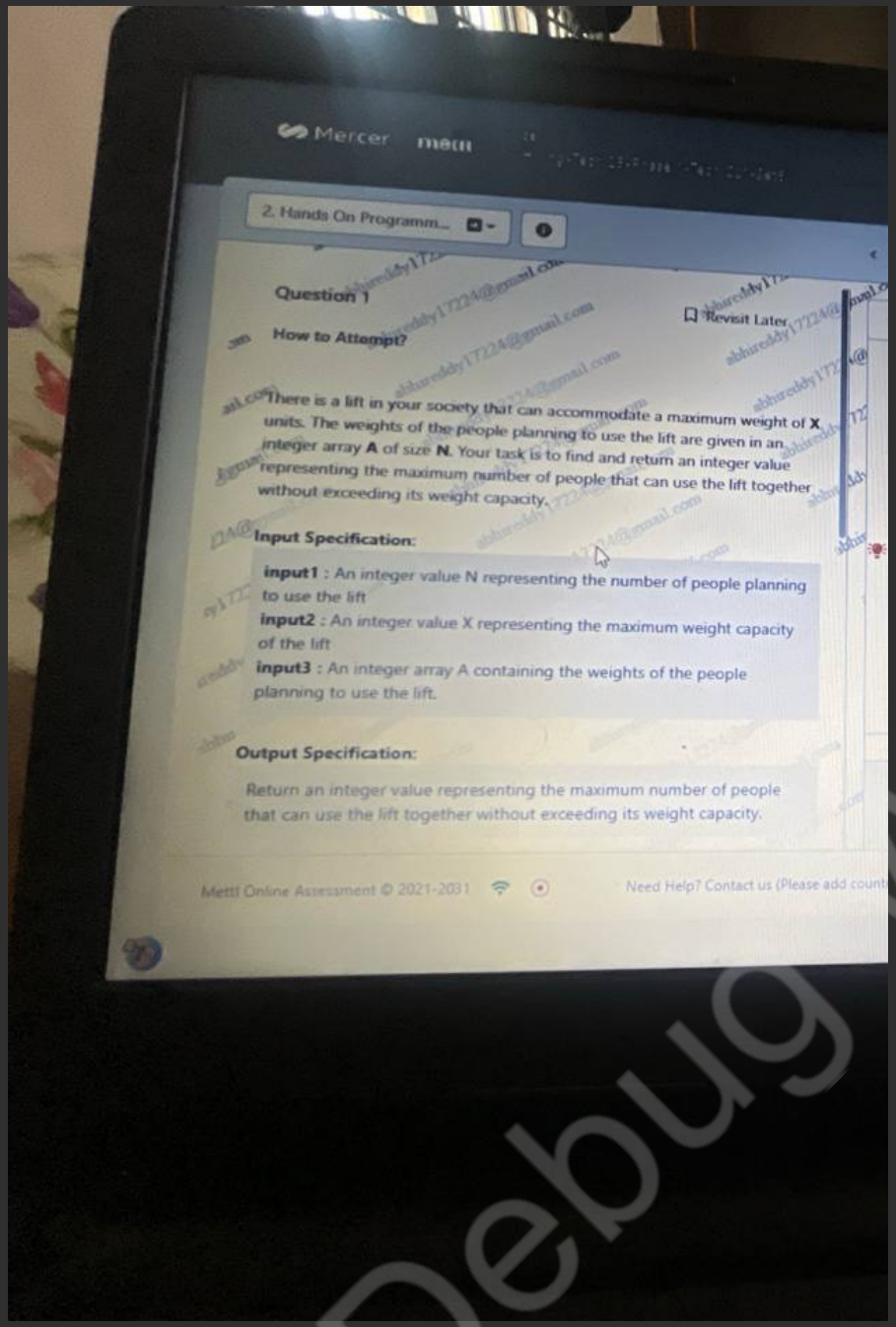
JAVA

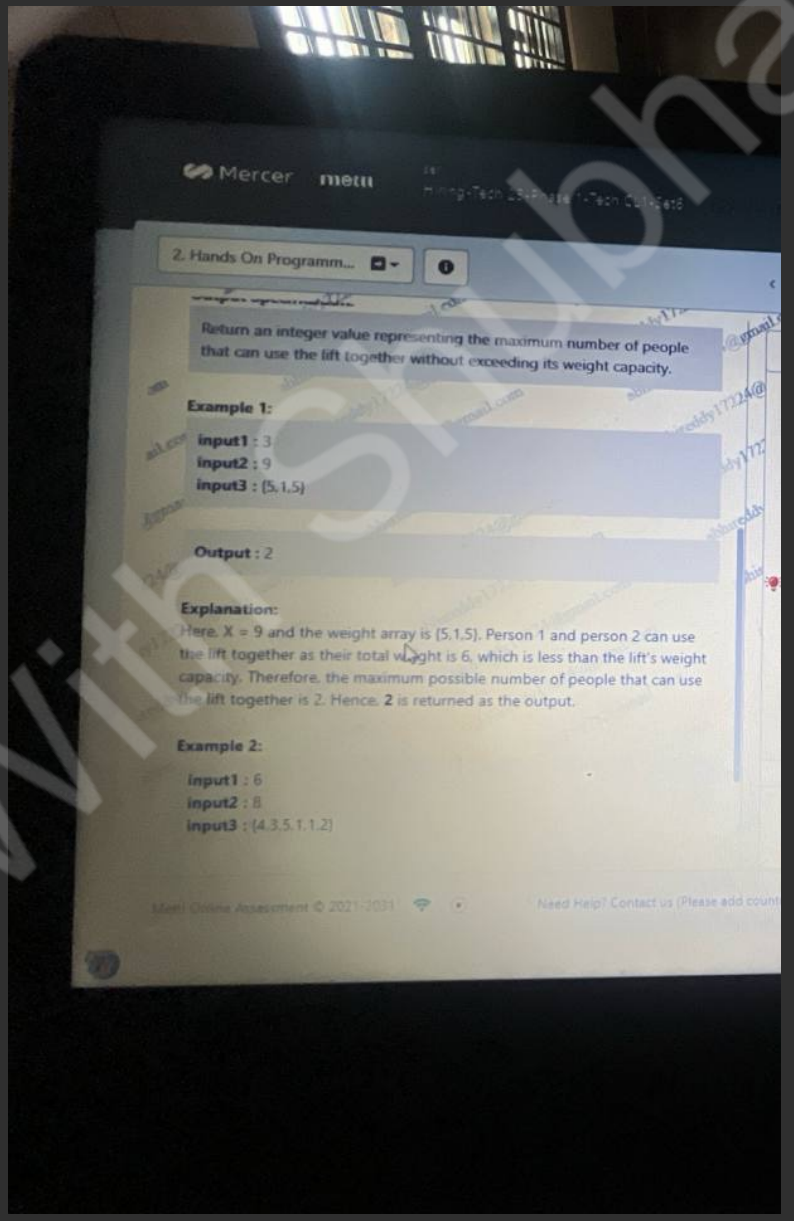
Main.java

Share Run

```java
public class Main {
    public static int findLatestVersion(String[] S, int n) {
        if (n == 0) {
            return -1;
        }
        int maxVersion = -1;
        for (String fileName : S) {
            if (fileName.startsWith("File_")) {
                int sp = Integer.parseInt(fileName.split("_")[1]);
                maxVersion = Math.max(maxVersion, sp);
            }
        }
        return maxVersion;
    }
    public static void main(String[] args) {
        String[] input1 = {"File_5", "File_3", "File_2", "File_1"};
        int input2 = 4;
        System.out.println(findLatestVersion(input1, input2));
    }
}
```

Question-2





Question-2

Python

main.py +

```python
def max_people_in_lift(N: int, X: int, A: list) -> int:
    if N == 0:
        return 0
    A.sort()
    cnt = A[0]
    c = 0
    for i in range(1,N):
        if cnt < X :
            cnt += A[i]
            c += 1
    return c
input1 = 6
input2 = 15
input3 = [5, 10, 3, 2,7,1]
print(max_people_in_lift(input1, input2, input3))

```

C++

main.cpp Share Run

```cpp
#include <iostream>
#include <algorithm>
using namespace std;
int maxPeopleInLift(int N, int X, int A[]) {
    if (N == 0) {
        return 0;
    }
    sort(A, A + N);
    int cnt = A[0];
    int c = 1;
    for (int i = 1; i < N; i++) {
        if (cnt + A[i] <= X) {
            cnt += A[i];
            c++;
        } else {
            break;
        }
    }
    return c;
}
int main() {
    int input1 = 6;
    int input2 = 15;
    int input3[] = {5, 10, 3, 2, 7, 1};
    cout << maxPeopleInLift(input1, input2, input3) << endl;

    return 0;
}

```

JAVA

Main.java Share Run

```java
import java.util.Arrays;
public class MaxPeopleInLift {
    public static int maxPeopleInLift(int N, int X, int[] A) {
        if (N == 0) {
            return 0;
        }
        Arrays.sort(A);
        int cnt = A[0];
        int c = 1;
        for (int i = 1; i < N; i++) {
            if (cnt + A[i] <= X) {
                cnt += A[i];
                c++;
            } else {
                break;
            }
        }
        return c;
    }
    public static void main(String[] args) {
        int input1 = 6;
        int input2 = 15;
        int[] input3 = {5, 10, 3, 2, 7, 1};
        System.out.println(maxPeopleInLift(input1, input2, input3));
    }
}

```