







1 Introduction

About the Report

This report provides a detailed analysis of the candidate's performance on different assessments. The tests for this job role were decided based on job analysis, O*Net taxonomy mapping and/or criterion validity studies. The candidate's responses to these tests help construct a profile that reflects her/his likely performance level and achievement potential in the job role

This report has the following sections:

The **Summary** section provides an overall snapshot of the candidate's performance. It includes a graphical representation of the test scores and the subsection scores.

The **Insights** section provides detailed feedback on the candidate's performance in each of the tests. The descriptive feedback includes the competency definitions, the topics covered in the test, and a note on the level of the candidate's performance.

The **Response** section captures the response provided by the candidate. This section includes only those tests that require a subjective input from the candidate and are scored based on artificial intelligence and machine learning.

The **Learning Resources** section provides online and offline resources to improve the candidate's knowledge, abilities, and skills in the different areas on which s/he was evaluated.

Score Interpretation

All the test scores are on a scale of 0-100. All the tests except personality and behavioural evaluation provide absolute scores. The personality and behavioural tests provide a norm-referenced score and hence, are percentile scores. Throughout the report, the colour codes used are as follows:

- Scores between 67 and 100
- Scores between 33 and 67
- Scores between 0 and 33



2 | Insights

English Comprehension



61 / 100

This test aims to measure your vocabulary, grammar and reading comprehension skills.

You have a good understanding of commonly used grammatical constructs. You are able to read and understand articles, reports and letters/mails related to your day-to-day work. The ability to read, understand and interpret business-related documents is essential in most jobs, especially the ones that involve research, technical reading and content writing.

Logical Ability



58 / 100

56 / 100



Inductive Reasoning

This competency aims to measure the your ability to synthesize information and derive conclusions.

You are able to work out rules based on specific information and solve general work problems using these rules. This skill is required in data-driven research jobs where one needs to formulate new rules based on variable trends.



Deductive Reasoning

57 / 100

This competency aims to measure the your ability to synthesize information and derive conclusions.

You are able to work out rules based on specific information and solve general work problems using these rules. This skill is required in data-driven research jobs where one needs to formulate new rules based on variable trends.



Abductive Reasoning

54 / 100

Quantitative Ability (Advanced)



53 / 100

This test aims to measure your ability to solve problems on basic arithmetic operations, probability, permutations and combinations, and other advanced concepts.

You are able to solve word problems on basic concepts of percentages, ratio, proportion, interest, time and work. Having a strong hold on these concepts can help you understand the concept of work efficiency and how interest is accrued on bank savings. It can also guide you in time management, work planning, and resource allocation in complex projects.

Personality

Competencies



Extraversion



Extraversion refers to a person's inclination to prefer social interaction over spending time alone. Individuals with high levels of extraversion are perceived to be outgoing, warm and socially confident.

- You are outgoing and seek out opportunities to meet new people.
- You tend to enjoy social gatherings and feels comfortable amongst strangers and friends equally.
- You display high energy levels and like to indulge in thrilling and exciting activities.
- You may tend to be assertive about your opinions and prefer action over contemplation.
- You take initiative and are more inclined to take charge than to wait for others to lead the way.
- Your personality is well suited for jobs demanding frequent interaction with people.



Conscientiousness



Conscientiousness is the tendency to be organized, hard working and responsible in one's approach to your work. Individuals with high levels of this personality trait are more likely to be ambitious and tend to be goal-oriented and focused.

- You value order and self discipline and tends to pursue ambitious endeavours.
- You believe in the importance of structure and is very well-organized.
- You carefully review facts before arriving at conclusions or making decisions based on them.
- You strictly adhere to rules and carefully consider the situation before making decisions.
- You tend to have a high level of self confidence and do not doubt your abilities.
- You generally set and work toward goals, try to exceed expectations and are likely to excel in most jobs, especially those which require careful or meticulous approach.



Agreeableness



Agreeableness refers to an individual's tendency to be cooperative with others and it defines your approach to interpersonal relationships. People with high levels of this personality trait tend to be more considerate of people around them and are more likely to work effectively in a team.

- You are considerate and sensitive to the needs of others.
- You tend to put the needs of others ahead of your own.
- You are likely to trust others easily without doubting their intentions.
- You are compassionate and may be strongly affected by the plight of both friends and strangers.
- You are humble and modest and prefer not to talk about personal accomplishments.



• Your personality is more suitable for jobs demanding cooperation among employees.



Openness to Experience



Openness to experience refers to a person's inclination to explore beyond conventional boundaries in different aspects of life. Individuals with high levels of this personality trait tend to be more curious, creative and innovative in nature.

- You tend to be curious in nature and is generally open to trying new things outside your comfort zone.
- You may have a different approach to solving conventional problems and tend to experiment with those solutions.
- You are creative and tends to appreciate different forms of art.
- You are likely to be in touch with your emotions and is quite expressive.
- Your personality is more suited for jobs requiring creativity and an innovative approach to problem solving.



Emotional Stability



Emotional stability refers to the ability to withstand stress, handle adversity, and remain calm and composed when working through challenging situations. People with high levels of this personality trait tend to be more in control of their emotions and are likely to perform consistently despite difficult or unfavourable conditions.

- You are calm and relaxed in most situations.
- You experience a range of emotions in high pressure situations. You tend to worry when working in critical conditions.
- You do not like attention drawn towards you. You take some time to become confident and comfortable around people.
- You subdue your impulses and tend to act in a rational manner.
- Your personality is suited for jobs that have a moderate amount of stress.



Polychronicity



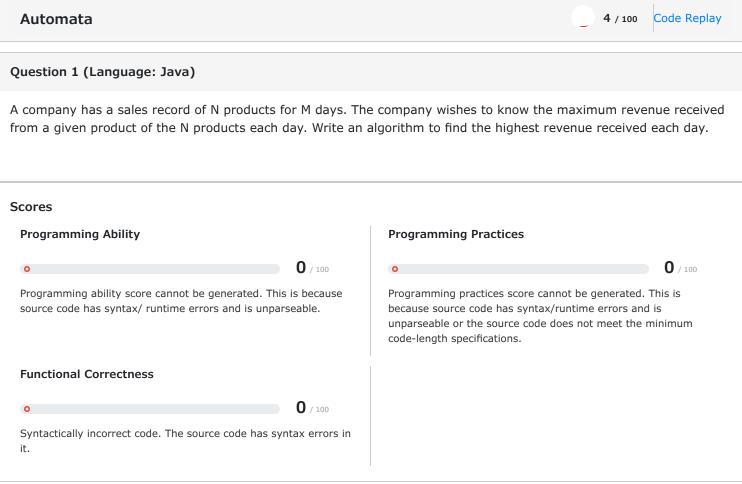
Polychronicity refers to a person's inclination to multitask. It is the extent to which the person prefers to engage in more than one task at a time and believes that such an approach is highly productive. While this trait describes the personality disposition of a person to multitask, it does not gauge their ability to do so successfully.

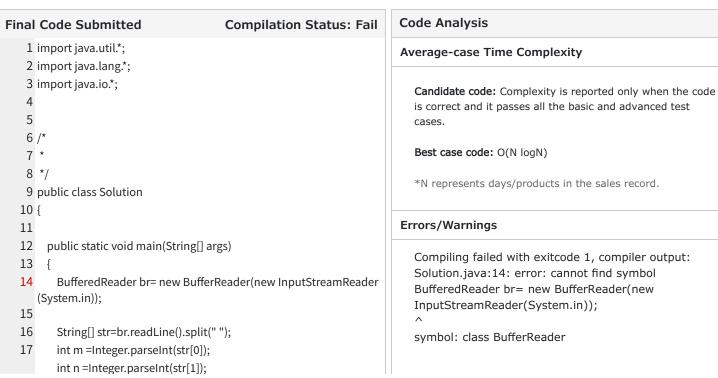
- You neither have a strong preference nor dislike to perform multiple tasks simultaneously.
- You are open to both options pursuing multiple tasks at the same time or working on a single project at a time.
- Whether or not you will succeed in a polychronous environment depends largely on your ability to do so.





3 | Response







```
18
19
20
       for(int i =0;i<m;i++){
21
       str=br.readLine().split(" ");
22
       int max = Integer.parseInt(str[0]);
23
       for(int j=1;j<n;j++){
24
         if(max<Integer.parseInt(str[j])){</pre>
25
            max=Integer.parseInt(str[j]);
26
         }
27
       }
28
29
       System.out.println(max);
30
31
32
33 }
34
```

location: class Solution
1 error

Structural Vulnerabilites and Errors

There are no errors in the candidate's code.

Compilation Statistics













Total attempts

Successful

Compilation errors

Sample failed

Timed out

Runtime errors

Response time:

00:31:35

Average time taken between two compile attempts:

00:10:32

0%

Average test case pass percentage per compile:

1 Average-case Time Complexity

Average Case Time Complexity is the order of performance of the algorithm given a random set of inputs. This complexity is measured here using the Big-O asymptotic notation. This is the complexity detected by empirically fitting a curve to the run-time for different input sizes to the given code. It has been benchmarked across problems.

1 Test Case Execution

There are three types of test-cases for every coding problem:

Basic: The basic test-cases demonstrate the primary logic of the problem. They include the most common and obvious cases that an average candidate would consider while coding. They do not include those cases that need extra checks to be placed in the logic.

Advanced: The advanced test-cases contain pathological input conditions that would attempt to break the codes which have incorrect/semi-correct implementations of the correct logic or incorrect/semi-correct formulation of the logic.

Edge: The edge test-cases specifically confirm whether the code runs successfully even under extreme conditions of the domain of inputs and that all possible cases are covered by the code



Question 2 (Language: C)

Charlie has a magic mirror that shows the right-rotated versions of a given word. To generate different right rotations of a word, the word is written in a circle in a clockwise order and read it starting from any given character in a clockwise order until all the characters are covered. For example, in the word "sample", if we start with 'p', we get the right rotated word as "plesam".

Write an algorithm to output 1 if the word1 is a right rotation of word2 otherwise output -1.

Scores

Programming Ability



20 / 100

Code seems to be unrelated to the given problem.

Functional Correctness



20 / 100

The source code does not pass any basic test cases. It is either due to incorrect logic or runtime errors. Some advanced or edge cases may randomly pass.

Programming Practices



Programming practices score cannot be generated. This is because source code has syntax/runtime errors and is unparseable or the source code does not meet the minimum code-length specifications.

Final Code Submitted

Compilation Status: Pass

- 1 //Header Files
- 2 #include<stdio.h>
- 3 #include<stdlib.h>
- 4 #include<string.h>
- 5 #include<stdbool.h>
- 6
- 7 /* only used in string related operations */
- 8 typedef struct String string;
- 9 struct String
- 10 {
- JUL
- 11 char *str;
- 12 };
- 13
- 14 char *input(FILE *fp, int size, int has_space)
- 15 {
- 16 int actual_size = 0;
- 17 char *str = (char *)malloc(sizeof(char)*(size+actual_size));
- 18 charch;
- if(has_space == 1)
- 20 {

Code Analysis

Average-case Time Complexity

Candidate code: Complexity is reported only when the code is correct and it passes all the basic and advanced test cases.

Best case code: O(N)

*N represents maximum of length of both the input strings

Errors/Warnings

There are no errors in the candidate's code.

Structural Vulnerabilites and Errors

There are no errors in the candidate's code.



```
21
       while(EOF != (ch=fgetc(fp)) \&\& ch != '\n')
22
23
         str[actual_size] = ch;
24
         actual_size++;
25
         if(actual_size >= size)
26
27
           str = realloc(str,sizeof(char)*actual_size);
28
         }
29
       }
30
    }
31
     else
32
33
       while(EOF != (ch=fgetc(fp)) && ch != '\n' && ch != ' ')
34
35
         str[actual_size] = ch;
36
         actual_size++;
37
         if(actual_size >= size)
38
39
           str = realloc(str,sizeof(char)*actual_size);
40
41
42 }
43
     actual_size++;
44
     str = realloc(str,sizeof(char)*actual_size);
     str[actual_size-1] = '\0';
45
46
     return str;
47 }
48 /* only used in string related operations */
49
50
51 /*
52 * word1, represents the first word.
53 word2, represents the second word.
55 int isSameReflection(string word1, string word2)
56 {
57
    int answer;
58
     // Write your code here
59
60
61
     return answer;
63 }
64
65 int main()
66 {
67
     string word1;
68
     string word2;
69
70
```



```
71 //input for word1
72
    word1.str = input(stdin, 100, 1);
73
74
75
    //input for word2
76
     word2.str = input(stdin, 100, 1);
77
78
79
     int result = isSameReflection(word1, word2);
80
     printf("%d", result);
81
82 return 0;
83 }
84
```

Test Case Execution				Passed TC: 0%
Total score	0/18	0% Basic(0/8)	0% Advance(0/8)	0% Edge(0 /2)

ompilation Statist	tics				
0	0	0	0	0	0
Total attempts	Successful	Compilation errors	Sample failed	Timed out	Runtime errors
esponse time:					00:06:
Average time taken between two compile attempts:					00:00:



i Average-case Time Complexity

Average Case Time Complexity is the order of performance of the algorithm given a random set of inputs. This complexity is measured here using the Big-O asymptotic notation. This is the complexity detected by empirically fitting a curve to the run-time for different input sizes to the given code. It has been benchmarked across problems.

1 Test Case Execution

There are three types of test-cases for every coding problem:

Basic: The basic test-cases demonstrate the primary logic of the problem. They include the most common and obvious cases that an average candidate would consider while coding. They do not include those cases that need extra checks to be placed in the logic.

Advanced: The advanced test-cases contain pathological input conditions that would attempt to break the codes which have incorrect/semi-correct implementations of the correct logic or incorrect/semi-correct formulation of the logic.

Edge: The edge test-cases specifically confirm whether the code runs successfully even under extreme conditions of the domain of inputs and that all possible cases are covered by the code

Automata Fix



15 / 100

Code Replay

Question 1 (Language: C++)

The function/method arrayReverse modify the input list by reversing its element

The function/method *arrayReverse* accepts two arguments - *len*, an integer representing the length of the list and *arr*, list of integers representing the input list, respectively.

For example, if the input list arr is {20 30 10 40 50}, the function/method is supposed to print {50 40 10 30 20}.

The function/method *arrayReverse* compiles successfully but fails to get the desired result for some test cases due to logical errors. Your task is to fix the code so that it passes all the test cases.

Scores

Final Code Submitted

Compilation Status: Pass

- $1 \ / \$ You can print the values to stdout for debugging
- 2 void arrayReverse(int len, int* arr)
- 3 {
- 4 int i, temp, originalLen=len;
- 5 for(i=0;i<originalLen/2;i++)
- 6 { 7
 - temp = arr[len-1];
- 8 arr[len-1] = arr[i];
 - arr[i] = temp;

Code Analysis

Average-case Time Complexity

Candidate code: Complexity is reported only when the code is correct and it passes all the basic and advanced test cases.

Best case code:

*N represents



9 10 len -= 1; 11 } 12 }

Errors/Warnings

There are no errors in the candidate's code.

Structural Vulnerabilites and Errors

There are no errors in the candidate's code.

Total score 100%

Total score 8/8

8/8

100%

Advance(2/2)

Passed TC: 100%

0%

Edge(0/0)

Compilation Statistics



4

0

3

0

0

Total attempts

Successful Compilation errors

Sample failed

Timed out

Runtime errors

Response time:

00:05:06

Average time taken between two compile attempts:

00:01:17

Average test case pass percentage per compile:

31.3%

i Average-case Time Complexity

Average Case Time Complexity is the order of performance of the algorithm given a random set of inputs. This complexity is measured here using the Big-O asymptotic notation. This is the complexity detected by empirically fitting a curve to the run-time for different input sizes to the given code. It has been benchmarked across problems.

i Test Case Execution

There are three types of test-cases for every coding problem:

Basic: The basic test-cases demonstrate the primary logic of the problem. They include the most common and obvious cases that an average candidate would consider while coding. They do not include those cases that need extra checks to be placed in the logic.

Advanced: The advanced test-cases contain pathological input conditions that would attempt to break the codes which have incorrect/semi-correct implementations of the correct logic or incorrect/semi-correct formulation of the logic.

Edge: The edge test-cases specifically confirm whether the code runs successfully even under extreme conditions of the domain of inputs and that all possible cases are covered by the code

Question 2 (Language: C++)



The function/method **countDigits** return an integer representing the remainder when the given number is divided by the number of digits in it.

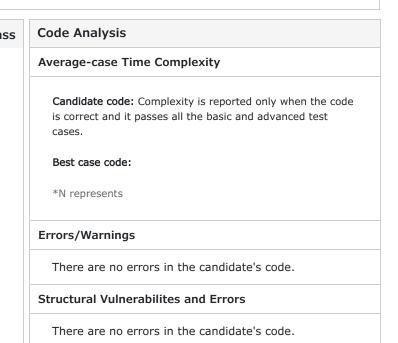
The function/method**countDigits** accepts an argument - *num*, an integer representing the given number.

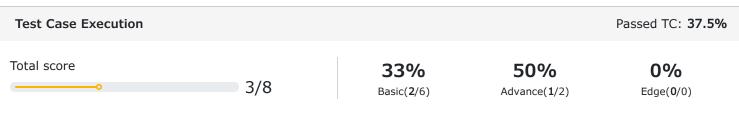
The function/method **countDigits** compiles successfully but fails to print the desired result for some test cases due to logical errors. Your task is to fix the code so that it passes all the test cases.

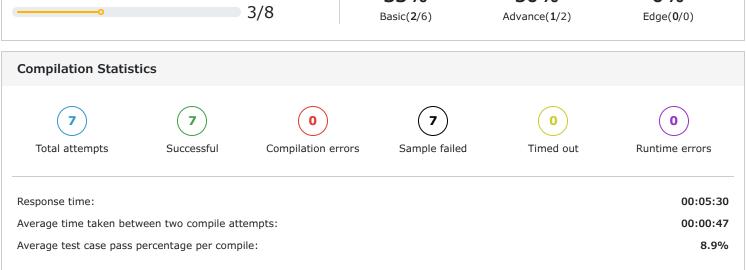
Scores

13

Final Code Submitted **Compilation Status: Pass** 1 // You can print the values to stdout for debugging 2 using namespace std; 3 int countDigits(int num) 4 { 5 int count =0; 6 while(num!=0){ 7 num=num/10; 8 count++; 9 } 10 return (num%count); 11 } 12









Average-case Time Complexity

Average Case Time Complexity is the order of performance of the algorithm given a random set of inputs. This complexity is measured here using the Big-O asymptotic notation. This is the complexity detected by empirically fitting a curve to the run-time for different input sizes to the given code. It has been benchmarked across problems.

1 Test Case Execution

There are three types of test-cases for every coding problem:

Basic: The basic test-cases demonstrate the primary logic of the problem. They include the most common and obvious cases that an average candidate would consider while coding. They do not include those cases that need extra checks to be placed in the logic.

Advanced: The advanced test-cases contain pathological input conditions that would attempt to break the codes which have incorrect/semi-correct implementations of the correct logic or incorrect/semi-correct formulation of the logic.

Edge: The edge test-cases specifically confirm whether the code runs successfully even under extreme conditions of the domain of inputs and that all possible cases are covered by the code

Question 3 (Language: C++)

The function/method *removeElement* prints space separated integers that remains after removing the integer at the given index from the input list.

The function/method *removeElement* accepts three arguments - *size*, an integer representing the size of the input list, *indexValue*, an integer representing given index and *inputList*, a list of integers representing the input list.

The function/method *removeElement* compiles successfully but fails to print the desired result for some test cases due to incorrect implementation of the function/method *removeElement*. Your task is to fix the code so that it passes all the test cases.

Note:

Zero-based indexing is followed to access list elements.

Scores

Final Code Submitted Compilation Status: Pass 1 // You can print the values to stdout for debugging 2 using namespace std; 3 void removeElement(int size, int indexValue, int *inputList) 4 { 5 int i,j; 6 if(indexValue<size) 7 { 8 for(i=indexValue;i<size-1;i++) 9 {

Code Analysis

Average-case Time Complexity

Candidate code: Complexity is reported only when the code is correct and it passes all the basic and advanced test cases.

Best case code:

*N represents



```
10
         inputList[i]=inputList[i++];
11
12
       for(i=0;i<size-1;i++)
13
         cout<<inputList[i]<<" ";
14
15
     else
16
       for(i=0;i<size;i++)
17
         cout<<inputList[i]<<" ";</pre>
18
19
    }
20 }
21
```

Errors/Warnings

There are no errors in the candidate's code.

Structural Vulnerabilites and Errors

There are no errors in the candidate's code.

Total score 40% 100% 100% Edge(1/1)

Compilation Statistics













Total attempts

Successful

Compilation errors

Sample failed

Timed out

Runtime errors

Response time:

00:01:32

Average time taken between two compile attempts:

00:01:32

Average test case pass percentage per compile:

12.5%



1 Average-case Time Complexity

Average Case Time Complexity is the order of performance of the algorithm given a random set of inputs. This complexity is measured here using the Big-O asymptotic notation. This is the complexity detected by empirically fitting a curve to the run-time for different input sizes to the given code. It has been benchmarked across problems.

1 Test Case Execution

There are three types of test-cases for every coding problem:

Basic: The basic test-cases demonstrate the primary logic of the problem. They include the most common and obvious cases that an average candidate would consider while coding. They do not include those cases that need extra checks to be placed in the logic.

Advanced: The advanced test-cases contain pathological input conditions that would attempt to break the codes which have incorrect/semi-correct implementations of the correct logic or incorrect/semi-correct formulation of the logic.

Edge: The edge test-cases specifically confirm whether the code runs successfully even under extreme conditions of the domain of inputs and that all possible cases are covered by the code

Question 4 (Language: C++)

The function/method *findMaxElement* return an integer representing the largest element in the given two input lists. The function/method *findMaxElement* accepts four arguments - *len1*, an integer representing the length of the first list, *arr1*, a list of integers representing the first input list, *len2*, an integer representing the length of the second input list and *arr2*, a list of integers representing the second input list, respectively.

Another function/method *sortArray* accepts two arguments - *len*, an integer representing the length of the list and *arr*, a list of integers, respectively and return a list sorted ascending order.

Your task is to use the function/method *sortArray* to complete the code in *findMaxElement* so that it passes all the test cases.

Compilation Status: Pass

Scores

Final Code Submitted Compilation 1 // You can print the values to stdout for debugging 2 using namespace std;

3 int* sortArray(int len, int* arr)

4 {

5 int i=0,j=0,temp=0;

6 for(i=0;i<len;i++)

7 {

8 for(j=i+1;j<len;j++)

9

Code Analysis

Average-case Time Complexity

Candidate code: Complexity is reported only when the code is correct and it passes all the basic and advanced test cases.

Best case code:

*N represents



```
10
       if(arr[i]>arr[j])
11
12
       temp = arr[i];
13
        arr[i] = arr[j];
14
        arr[j] = temp;
15
16
17
18
     return arr;
19 }
20
21 int findMaxElement(int len1, int* arr1, int len2, int* arr2)
22 {
23 int max=0;
24 for(int i=0;i<sizeof(arr1);i++) {
    if(arr1[i] > max){
26
      max=arr1[i];
27 }
28 }
29
30 for(int i=0;i<sizeof(arr2);i++) {
     if(arr2[i] > max){
31
32
      max=arr2[i];
33 }
34 }
35 return max;
36
37 }
38
```

Errors/Warnings

There are no errors in the candidate's code.

Structural Vulnerabilities and Errors

There are no errors in the candidate's code.

 Test Case Execution
 Passed TC: 37.5%

 Total score
 50%
 33%
 0%

 Basic(1/2)
 Advance(2/6)
 Edge(0/0)

Compilation Statistics

2
3
2
0
Total attempts
Successful
Compilation errors
Sample failed
Timed out
Runtime errors

Response time:
Average time taken between two compile attempts:
Average test case pass percentage per compile:
2.5%



1 Average-case Time Complexity

Average Case Time Complexity is the order of performance of the algorithm given a random set of inputs. This complexity is measured here using the Big-O asymptotic notation. This is the complexity detected by empirically fitting a curve to the run-time for different input sizes to the given code. It has been benchmarked across problems.

1 Test Case Execution

There are three types of test-cases for every coding problem:

Basic: The basic test-cases demonstrate the primary logic of the problem. They include the most common and obvious cases that an average candidate would consider while coding. They do not include those cases that need extra checks to be placed in the logic.

Advanced: The advanced test-cases contain pathological input conditions that would attempt to break the codes which have incorrect/semi-correct implementations of the correct logic or incorrect/semi-correct formulation of the logic.

Edge: The edge test-cases specifically confirm whether the code runs successfully even under extreme conditions of the domain of inputs and that all possible cases are covered by the code

Question 5 (Language: C++)

You are given predefined structure *Time* containing *hour*, *minute*, and *second* as members. A collection of functions/methods for performing some common operations on times is also available. You must make use of these functions/methods to calculate and return the difference.

The function/method *difference_in_times* accepts two arguments - *time1*, and *time2*, representing two times and is supposed to return an integer representing the difference in the number of seconds.

You must complete the code so that it passes all the test cases.

Helper Description

The following class is used to represent the time and is already implemented in the default code (Do not write this definition again in your code):

```
class Time
{
  int hour;
  int minute;
  int second;
  int Time :: Time_compareTo( Time* time2)
}
```



```
/*Return 1, if time1 is greater than time2.

Return -1 if time1 is less than time2

or, Return 0, if time1 is equal to time2

This can be called as -

* If time1 and time2 are two Time then -

* time1.compareTo(time2) */

}

void Time :: Time_addSecond()

{

/* Add one second in the time;

This can be called as -

* If time1 is Time then -

* time1.addSecond() */

}
```

Scores

Final Code Submitted

Compilation Status: Fail

```
1 // You can print the values to stdout for debugging
2 using namespace std;
3 int difference_in_times(Time *time1, Time *time2)
4 {
5  // write your code here
6 }
7
```

Code Analysis

Average-case Time Complexity

Candidate code: Complexity is reported only when the code is correct and it passes all the basic and advanced test cases.

Best case code:

*N represents

Errors/Warnings

```
In file included from main_24.cpp:8:
source_24.cpp: In function 'int
difference_in_times(Time*, Time*)':
source_24.cpp:6:1: error: no return statement in
function returning non-void [-Werror=return-type]
}
```



^

cc1plus: some warnings being treated as errors

Structural Vulnerabilities and Errors

There are no errors in the candidate's code.

Compilation Statistics

0

0

0

(0)

0

0

Total attempts

Successful

Compilation errors

Sample failed

Timed out

Runtime errors

Response time:

00:00:05

Average time taken between two compile attempts:

00:00:00

Average test case pass percentage per compile:

0%

i Average-case Time Complexity

Average Case Time Complexity is the order of performance of the algorithm given a random set of inputs. This complexity is measured here using the Big-O asymptotic notation. This is the complexity detected by empirically fitting a curve to the run-time for different input sizes to the given code. It has been benchmarked across problems.

i Test Case Execution

There are three types of test-cases for every coding problem:

Basic: The basic test-cases demonstrate the primary logic of the problem. They include the most common and obvious cases that an average candidate would consider while coding. They do not include those cases that need extra checks to be placed in the logic.

Advanced: The advanced test-cases contain pathological input conditions that would attempt to break the codes which have incorrect/semi-correct implementations of the correct logic or incorrect/semi-correct formulation of the logic.

Edge: The edge test-cases specifically confirm whether the code runs successfully even under extreme conditions of the domain of inputs and that all possible cases are covered by the code

Question 6 (Language: C++)

The function/method *countElement* returns the number of elements in the input list arr which are greater than twice the input number K. The function/method *countElement* accepts three arguments - *size*, an integer representing the size of the input list, *numK*, an integer representing the input number K and *inputList*, a list of integers.

The function/method compiles unsuccessfully due to syntactical error. Your task is to fix the code so that it passes all the test cases.



Scores

9

12 }

10 }

Final Code Submitted

count+=1;

11 return count;

1 // You can print the values to stdout for debugging 2 using namespace std; 3 int countElement(int size, int numK, int *inputList) 4 { 5 int i,count=0; 6 for(i=0,i<size,i++) 7 { 8 if(inputList[i]>numK)

Code Analysis

Compilation Status: Fail

Average-case Time Complexity

Candidate code: Complexity is reported only when the code is correct and it passes all the basic and advanced test cases.

Best case code:

*N represents

Errors/Warnings

```
In file included from main_30.cpp:7:
source_30.cpp: In function 'int countElement(int, int,
int*)':
source 30.cpp:6:23: error: expected ';' before ')'
token
for(i=0,i^{\wedge}
source_30.cpp:11:5: error: expected primary-
expression before 'return'
return count;
source_30.cpp:10:6: error: expected ';' before 'return'
}
return count;
~~~~~
source_30.cpp:11:5: error: expected primary-
expression before 'return'
return count;
^~~~~
source_30.cpp:10:6: error: expected ')' before 'return'
return count;
~~~~~
source_30.cpp:6:8: note: to match this '('
for(i=0,i ^
```

Structural Vulnerabilites and Errors

There are no errors in the candidate's code.



Compilation Statistics













Total attempts

Successful

Compilation errors

Sample failed

Timed ou

Runtime errors

Response time:

00:00:58

Average time taken between two compile attempts:

00:00:58

Average test case pass percentage per compile:

0%

i Average-case Time Complexity

Average Case Time Complexity is the order of performance of the algorithm given a random set of inputs. This complexity is measured here using the Big-O asymptotic notation. This is the complexity detected by empirically fitting a curve to the run-time for different input sizes to the given code. It has been benchmarked across problems.

i Test Case Execution

There are three types of test-cases for every coding problem:

Basic: The basic test-cases demonstrate the primary logic of the problem. They include the most common and obvious cases that an average candidate would consider while coding. They do not include those cases that need extra checks to be placed in the logic.

Advanced: The advanced test-cases contain pathological input conditions that would attempt to break the codes which have incorrect/semi-correct implementations of the correct logic or incorrect/semi-correct formulation of the logic.

Edge: The edge test-cases specifically confirm whether the code runs successfully even under extreme conditions of the domain of inputs and that all possible cases are covered by the code

Question 7 (Language: C++)

The function/method **printCharacterPattern** accepts an integer *num*. It is supposed to print the first *num* ($0 \le num \le 26$) lines of the pattern as shown below.

For example, if num = 4, the pattern is:

а

ab

abc

abcd

The function/method compiles successfully but fails to print the desired result for some test cases due to logical errors. Your task is to fix the code so that it passes all the test cases.



Scores

Final Code Submitted **Compilation Status: Pass** 1 // You can print the values to stdout for debugging 2 using namespace std; 3 void printCharacterPattern(int num){ int i, j; 5 char ch='a'; 6 char print; 7 for(i=0;i<num;i++){ 8 print = ch; 9 for(j=0;j<=i;j++) 10 cout<<(ch++); 11 cout<<"\n"; 12 } 13 } 14

Code Analysis

Average-case Time Complexity

Candidate code: Complexity is reported only when the code is correct and it passes all the basic and advanced test cases.

Best case code:

*N represents

Errors/Warnings

There are no errors in the candidate's code.

Structural Vulnerabilites and Errors

There are no errors in the candidate's code.

Total score 2/8 33% 0% 100% Edge(1/1)

Compilation Statistics



Total attempts



Successful



Compilation errors



Sample failed



Timed out



Runtime errors

Response time:

00:00:00

00:00:00

12.5%

Average time taken between two compile attempts:

Average test case pass percentage per compile:



i Average-case Time Complexity

Average Case Time Complexity is the order of performance of the algorithm given a random set of inputs. This complexity is measured here using the Big-O asymptotic notation. This is the complexity detected by empirically fitting a curve to the run-time for different input sizes to the given code. It has been benchmarked across problems.

1 Test Case Execution

There are three types of test-cases for every coding problem:

Basic: The basic test-cases demonstrate the primary logic of the problem. They include the most common and obvious cases that an average candidate would consider while coding. They do not include those cases that need extra checks to be placed in the logic.

Advanced: The advanced test-cases contain pathological input conditions that would attempt to break the codes which have incorrect/semi-correct implementations of the correct logic or incorrect/semi-correct formulation of the logic.

Edge: The edge test-cases specifically confirm whether the code runs successfully even under extreme conditions of the domain of inputs and that all possible cases are covered by the code



4 | Learning Resources

English Comprehensio	n					
Improve your hold on th	(H)					
Learn about how to get	\$					
Read opinions to improv	(si)		8			
Logical Ability						
Practice your Inductive F	Reasoning Skills!		(je)			
Learn about generalizing	unknown trends		(A)			
Test your application of	(ii)		8			
Quantitative Ability (A	dvanced)					
Watch a video on the history of algebra and its applications			(E)		<u> </u>	
Learn about proportions and its practical usage			(AB)			
Learn about calculating percentages manually				Þ		
Icon Index						
Free Tutorial	\$ Paid Tutorial	Youtube Video	Web Source	₩eb Source		
▶ Wikipedia	Text Tutorial	Video Tutorial	Google Pla	Soogle Playstore		