

Hadoop Administrator

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Screening Test

Completed on : 07-Dec-2024 04:02 PM

#	Question	Response	Marks
1	Do you have a bachelors degree in computer science or in the related field	Yes	1
2	Do you have working experience in Hadoop on Linux for (1 to 3 years)	Yes	1
3	Did you you ever worked with multiple teams and used various collaboration tools and methods	Yes	1
4	Do you have Hadoop Administration skills	Yes	1
5	Do you have Linux Administration & troubleshooting skills	Yes	1
6	Do you have Shell Scripting skills	Yes	1
7	Do you think you can Handle and process large datasets using Hadoop ecosystem tools such as HDFS, Hive, and Hbase.	Yes	1
8	Do you have efficient coding skills in Python programming	Yes	1
9	Are you ready to travel outside of India on the project work	Yes	1
10	Do you have a valid Passport	Yes	1

Overall Score : 10/10 (Promoted)

Coding Test

Completed on : 07-Dec-2024 04:16 PM

1. Chef and Candies Chef has N children, and he wants to give each child 1 candy. Chef already has X candies with him. To buy the rest, he visits a candy shop where packets containing exactly 4 candies are available. Determine the minimum number of candy packets Chef must buy so that he is able to give 1 candy to each of the N children. Input Format The first line of input will contain a single integer T , denoting the number of test cases. The first and only line of each test case contains two integers N and X — the number of children and the number of candies Chef already has. Output Format For each test case, output the minimum number of candy packets Chef must buy so that he is able to give 1 candy to each of the N children. Constraints $1 \leq T \leq 1000$ $1 \leq N, X \leq 100$ Input Output 4 2 20 12 0 10 100 1 10 9 3 20 9 Explanation: Test Case 1: Chef must buy 2 more packets, after which he will have 20 candies. This will be enough to distribute 1 candy to each of the N children. Marks Scored : 2

```
class ChefAndCandies:
    def __init__(self, test_cases):
        self.test_cases = test_cases # Store the test cases

    def min_candy_packets(self):
        results = []
        for test_case in self.test_cases:
            N, X = test_case
            candies_needed = N - X
            if candies_needed <= 0:
                results.append(0)
            else:
                packets = (candies_needed + 3) // 4
                results.append(packets)

        # WRITE CODE HERE
        return results
```

2. Given a string s , determine the minimum number of operations required to convert it into a palindrome. Rules: You can only decrease the value of a character (e.g., change 'd' to 'c'). Increasing the value is not allowed. The letter 'a' cannot be reduced further. Each reduction in the value of a character is counted as a single operation. Examples: Input: $s = \text{"cde"}$ Expected Output: 2 Explanation: The transformations are: $\text{cde} \rightarrow \text{cdd} \rightarrow \text{cdc}$ Total operations: 2 Input: $s = \text{"abcba"}$ Expected Output: 0 Explanation: The string is already a palindrome. No operations are needed. Input: $s = \text{"abcd"}$ Expected Output: 4 Explanation: The transformations are: $\text{abcd} \rightarrow \text{abcc} \rightarrow \text{abca} \rightarrow \text{abba}$ Total operations: 4 Marks Scored : 4

```
class PalindromeOperations:
    def minOperationsToPalindrome(self, s):
        # Write your code here
        n = len(s)
        operations = 0
        for i in range(n // 2):
            if s[i] != s[n - i - 1]:
```

```
operations+= abs(ord(s[i]) - ord(s[n-i-1]))  
return operations
```

Overall Score : 6/6 (Promoted)