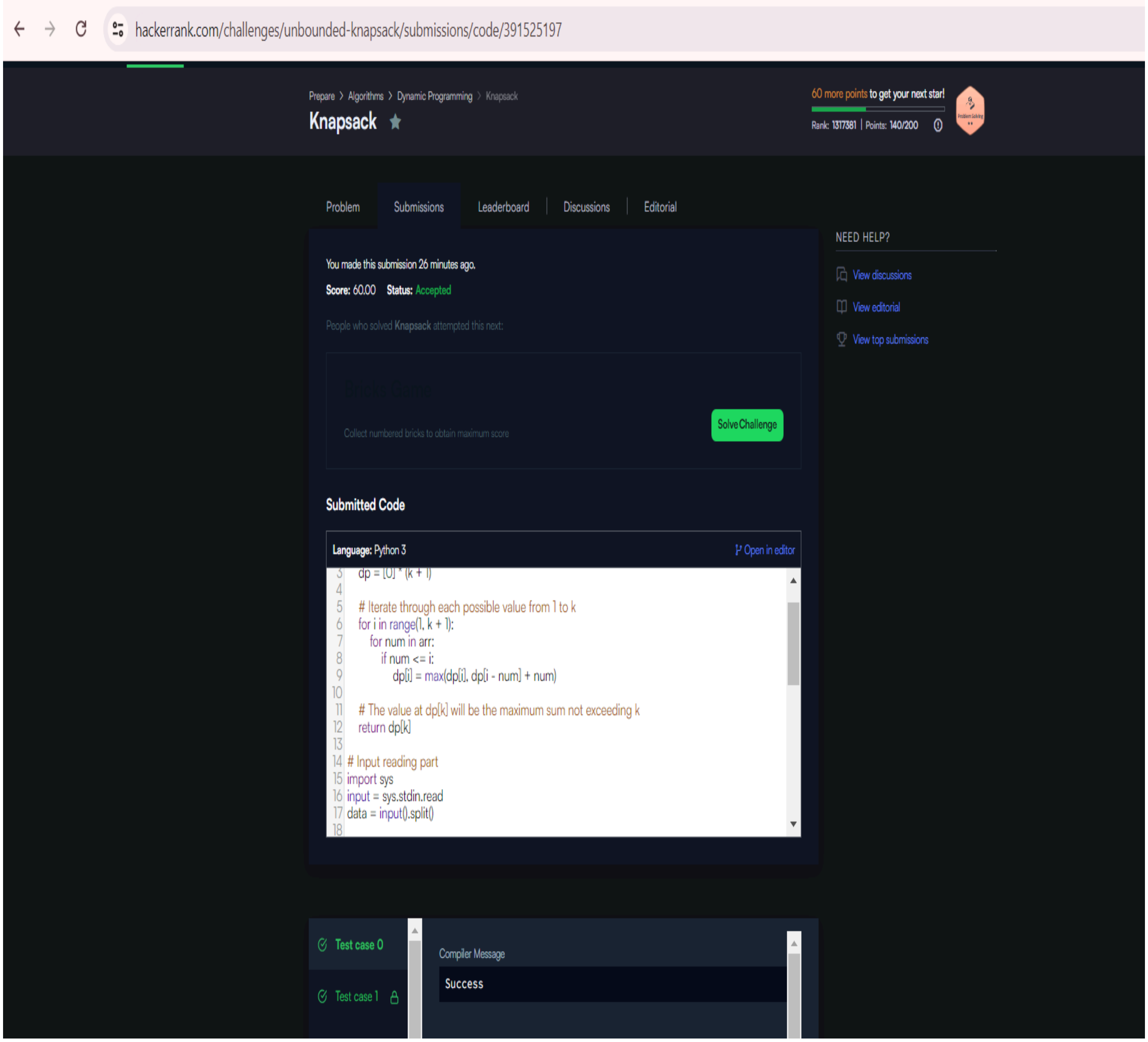
Knapsack



hackerrank.com/challenges/unbounded-knapsack/submissions/code/391525197

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Knapsack
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Score: 60.00 **Status:** Accepted

People who solved **Knapsack** attempted this next:

Bricks Game

Collect numbered bricks to obtain maximum score

Submitted Code

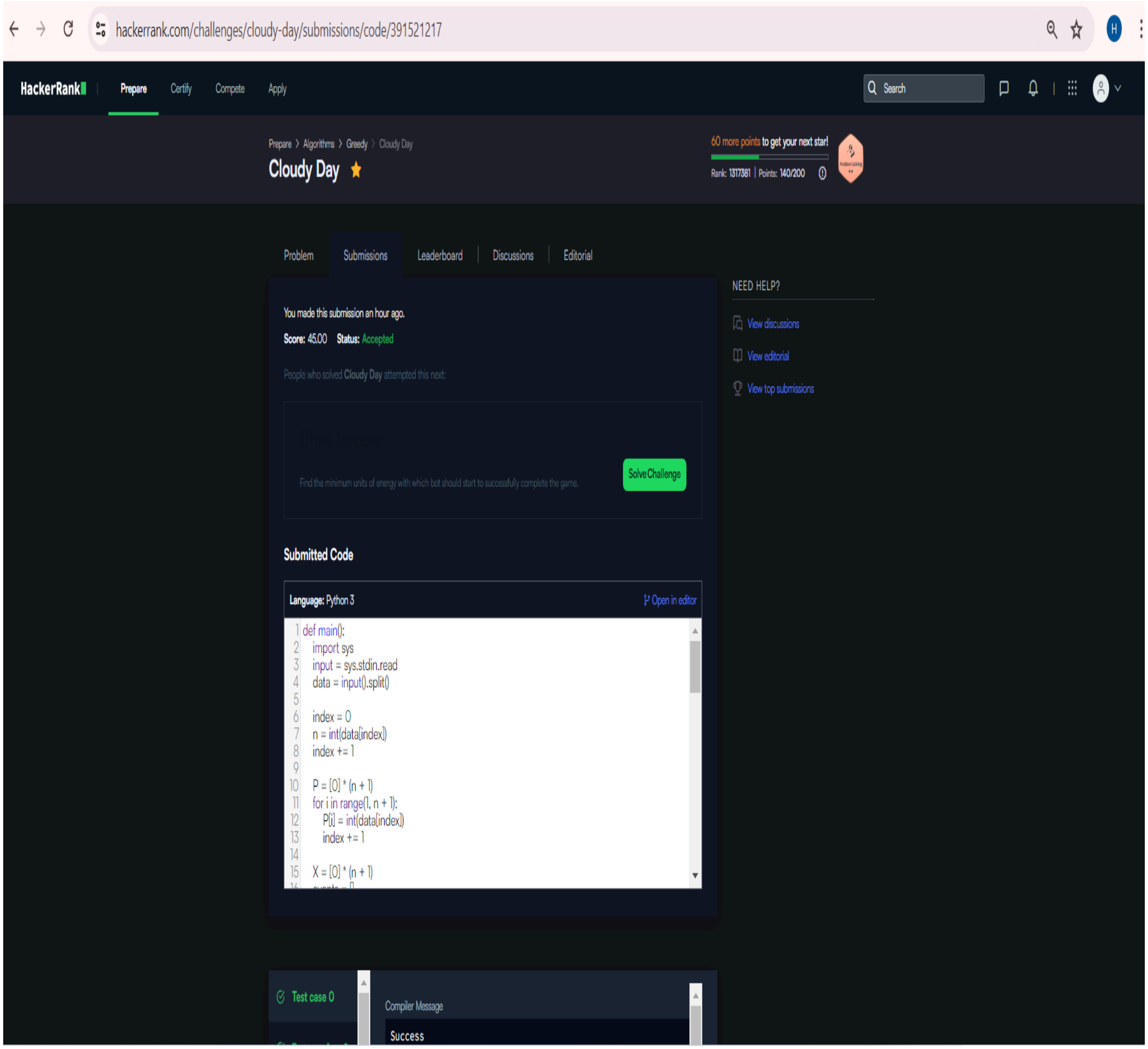
Language: Python 3

```python
    dp = [0] * (k + 1)

    # Iterate through each possible value from 1 to k
    for i in range(1, k + 1):
        for num in arr:
            if num <= i:
                dp[i] = max(dp[i], dp[i - num] + num)

    # The value at dp[k] will be the maximum sum not exceeding k
    return dp[k]

# Input reading part
import sys
input = sys.stdin.read
data = input().split()

```

Compiler Message

```
Success
```

Cluody_Day



You made this submission an hour ago.

Score: 45.00 **Status:** Accepted

People who solved **Cloudy Day** attempted this next:

Chief Hopper

Find the minimum units of energy with which bot should start to successfully complete the game.

Submitted Code

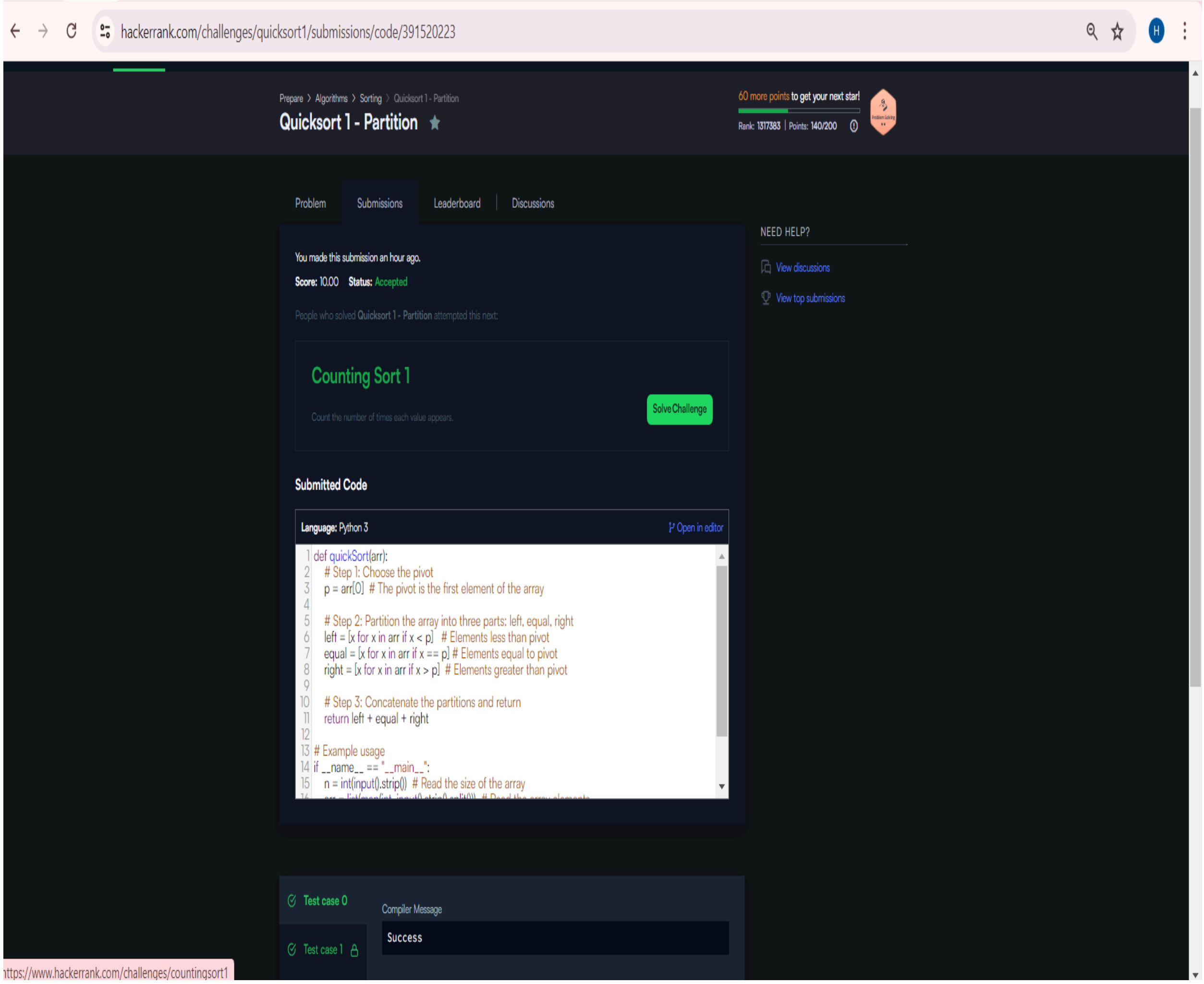
Language: Python 3

```python
def main():
    import sys
    input = sys.stdin.read
    data = input().split()

    index = 0
    n = int(data[index])
    index += 1

    P = [0] * (n + 1)
    for i in range(1, n + 1):
        P[i] = int(data[index])
        index += 1

    X = [0] * (n + 1)
```

Compiler Message

```
Success
```

Quicksort 1 - Partition


hackerrank.com/challenges/quicksort1/submissions/code/391520223
Prepare > Algorithms > Sorting > Quicksort 1 - Partition
Quicksort 1 - Partition
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Test case 0
Test case 1
Compiler Message
https://www.hackerrank.com/challenges/countingsort1

You made this submission an hour ago.

Score: 10.00 **Status:** Accepted

People who solved **Quicksort 1 - Partition** attempted this next:

Counting Sort 1

Count the number of times each value appears.

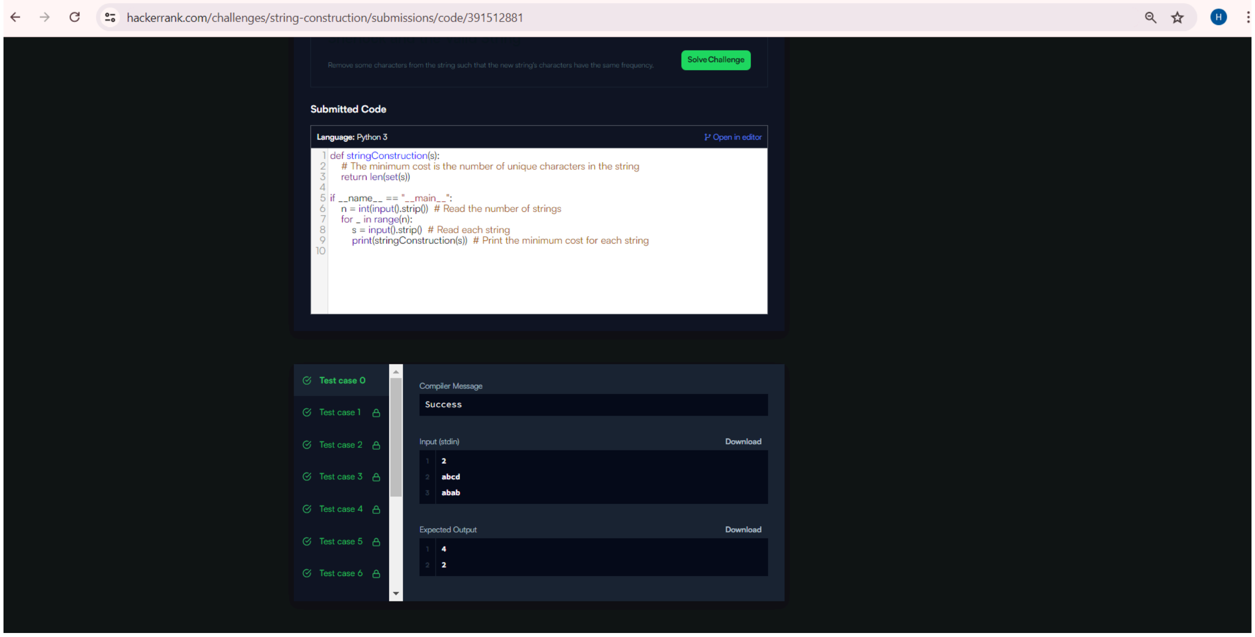
Submitted Code

Language: Python 3

```python
def quickSort(arr):
    # Step 1: Choose the pivot
    p = arr[0]  # The pivot is the first element of the array

    # Step 2: Partition the array into three parts: left, equal, right
    left = [x for x in arr if x < p]   # Elements less than pivot
    equal = [x for x in arr if x == p] # Elements equal to pivot
    right = [x for x in arr if x > p]  # Elements greater than pivot

    # Step 3: Concatenate the partitions and return
    return left + equal + right

# Example usage
if __name__ == "__main__":
    n = int(input().strip())  # Read the size of the array
    arr = list(map(int, input().strip().split()))  # Read the array elements
```

Success

String Construction



hackerrank.com/challenges/string-construction/submissions/code/391512881

Remove some characters from the string such that the new string's characters have the same frequency.

Submitted Code

Language: Python 3

```python
def stringConstruction(s):
    # The minimum cost is the number of unique characters in the string
    return len(set(s))

if __name__ == "__main__":
    n = int(input().strip())  # Read the number of strings
    for _ in range(n):
        s = input().strip()  # Read each string
        print(stringConstruction(s))  # Print the minimum cost for each string

```

Compiler Message

```
Success
```

Input (stdin)

```
2
abcd
abab
```

Expected Output

```
4
2
```