

NAME*

NEPTUN CODE*

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You can write anything anywhere on this sheet or its back; it's only what you write in the boxes below with a pen that will count.

YOUR ANSWERS:

1	2	3	4	5
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Problem 1. Suppose that the value of the variable `lst` is`[1, 12, 4, 2, 14, 0, 7, 5, 11, 8, 13, 3]`What is the value of the expression `lst[1:9][4]`?

1 0

Problem 2. What is the value of the expression `len(x)` after the execution of the code below?

```
x = [5, 4, 0, 4]
x.extend([2, 1, 2, 2, 2])
x.append([1, 1])
x.append([0, 0, 3, 5])
```

2 11

Problem 3. What is the value of the variable `x` after the execution of the code below?

```
x = 2
for i in [4, 5, 4, 4]:
    for j in range(1, i):
        if j%3 == 0:
            break
    x += j
```

3 14

Problem 4. Suppose that the function `f` is defined as follows:

```
def f(lst, n, m):
    return [m if x == n else x for x in lst]
```

and that the value of the variable `lst` is`[4, 3, 2, 3, 3, 2, 2, 2]`What is the value of `f(lst,2,1)[7]`?

4 1

Problem 5. Suppose that the function `f` is defined as follows:

```
def f(s):  
    res = ""  
    for index, character in enumerate(s,2):  
        res += character * ((index - 1 if index % 2 else index)//2)  
    return res
```

What is the value of `f('nvhg')[3]` ?

5 h