ECS 32A: Practice Problem Set #1 for Exam #2: Solutions

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Contents

1 Changelog

You should always refer to the latest version of the syllabus.

- v.1: Initial version.

2 Solutions

2.1 Problem #1

```
ddee
bbc
acd
```

2.2 Problem #2

```
False
aaa
Wb
```

2.3 Problem #3

The empty string.

2.4 Problem #4

```
def bar(string):
    return len(string) > 5
```

2.5 Problem #5

```
def foo(string,target):
    for i in range(len(string)):
        if i == target:
            return string[i]
    return False
```

2.6 Problem #6

```
s = input("Enter string: ")
t = input("Enter target character: ")
if len(t) == 1:
    if t in s:
        print("Target is in string.")
    else:
        print("Target is not in string.")
else:
    print("Invalid target character.")
```

2.7 Problem #7

Output of the ‘for‘ loop:

```
8
11
14
```

Solution:

```
i = 8
while i < 15:
    print(i)
    i += 3
```

2.8 Problem #8

Output of the ‘while‘ loop:

```
50
51
52
...
997
998
999
```

Solution:

```
for i in range(50,1000):
    print(i)
```

2.9 Problem #9

```
def foo(s):
    count = 0
    for c in s:
        if c == s[0]:
            count += 1
    return count
```

2.10 Problem #10

```python
def foo(string):
    num_A = 0
    num_B = 0
    for c in string:
        if c == "A":
            num_A += 1
        elif c == "B":
            num_B += 1
    return num_A > num_B
```

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