

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

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## 1 Changelog

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

- v.1: Initial version.

## 2 Solutions

### 2.1 Problem #1

```
1 ddee
2 bbc
3 acd
```

### 2.2 Problem #2

```
1 False
2 aaa
3 Wb
```

### 2.3 Problem #3

The empty string.

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## 2.4 Problem #4

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

## 2.5 Problem #5

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

## 2.6 Problem #6

```
1 s = input("Enter string: ")  
2 t = input("Enter target character: ")  
3 if len(t) == 1:  
4     if t in s:  
5         print("Target is in string.")  
6     else:  
7         print("Target is not in string.")  
8 else:  
9     print("Invalid target character.")
```

## 2.7 Problem #7

Output of the 'for' loop:

```
1 8  
2 11  
3 14
```

Solution:

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

## 2.8 Problem #8

Output of the 'while' loop:

```
1 50  
2 51  
3 52  
4 ...  
5 997  
6 998  
7 999
```

Solution:

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

## 2.9 Problem #9

```
1 def foo(s):  
2     count = 0  
3     for c in s:  
4         if c == s[0]:  
5             count += 1  
6     return count
```

## 2.10 Problem #10

```
1 def foo(string):
2     num_A = 0
3     num_B = 0
4     for c in string:
5         if c == "A":
6             num_A += 1
7         elif c == "B":
8             num_B += 1
9     return num_A > num_B
```

