In-Class Assignment:

1. What is the output for the following code:

(a)

```
while a > b:
    if a > 5:
        a -= 2
        b -= 1
    elif b > 5:
        a -= 5
        b += 10
    else:
        a -= 2
        b -= 3
    print(a,b)

if a = 10, and b = 7
```
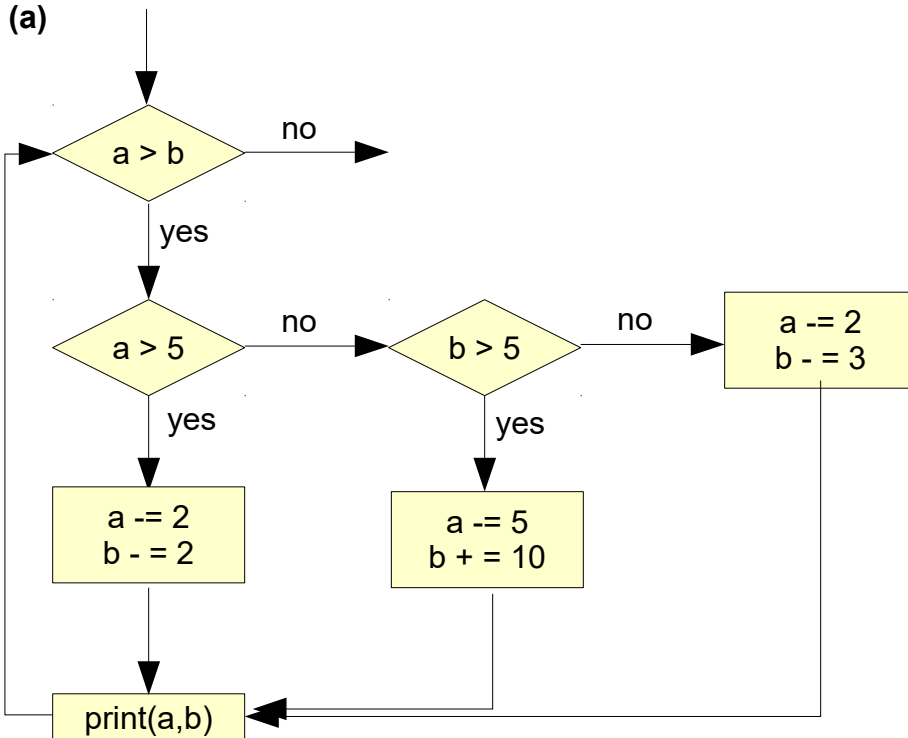
Output:
8 6
6 5
4 4

(b)

```
s = "my name is Mary"
index = 0

while s[index] != 'M':
    index += 1
print(index)
```
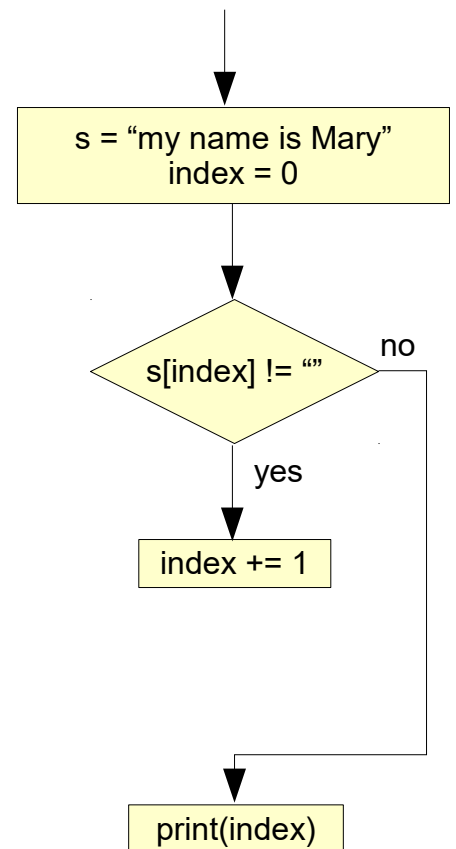
Output:
11

2. Draw a flowchart for each of the two blocks of code from **1.**

(a)

(b)

3. Write a program that finds the product of five numbers (using for loop), and user can run this calculation as many times as he/she wants (without re-running the program) for different inputs.

comment: at the end of calculation your program should ask whether the user wants to do it again or not.

Here is a sketch of the program:

```python
def main():

    print("This program finds the product of five given values.")

    answer = "y"
    while answer[0] == "y":

        P = 1

        for i in range(5):
            # get the next value from the user
            # update product p

        print("Their product is",p)

        answer = input("Do you want to do it again? (Enter yes or
no)").lower()

    print("Have a good day!")

main()
```