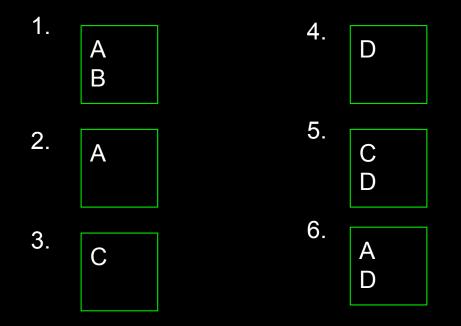


CL02 - Memory Diagrams + Conditionals Practice

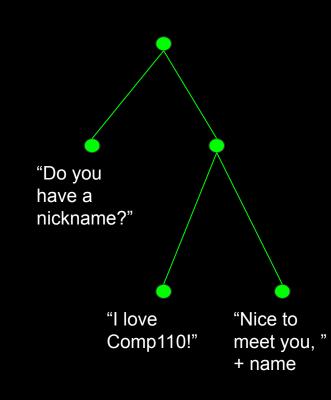
Conditionals Practice

```
1
    x: int =
   y: int = 9
 2
 3
    if x % 2 == 0:
 4
        print("A")
 5
 6
        if x == 2:
 7
            print("B")
 8
    else:
        if x < y:
 9
            print("C")
10
11
    if x ** 2 == y:
        print("D")
12
```

Choose a value of x (if possible) to give the following outputs:



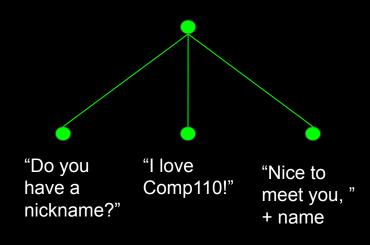
```
name: str = input("Name? ")
1
2
  if len(name) > 6:
3
       print("Do you have a nickname?")
4
5
   else:
       if name == "Alyssa":
6
           print("I love Comp110!")
7
8
       else:
           print("Nice to meet you, " + name)
9
```



```
name: str = input("Name? ")
1
2
  if len(name) > 6:
3
       print("Do you have a nickname?")
4
5 else
                                   elif
6 •
      if name == "Alyssa":
           print("I love Comp110!")
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       else:
           print("Nice to meet you, " + name)
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  if len(name) > 6:
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       print("Do you have a nickname?")
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5 else
                                   elif
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      if name == "Alyssa":
           print("I love Comp110!")
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           print("Nice to meet you, " + name)
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```

```
name: str = input("Name? ")
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3
  if len(name) > 6:
       print("Do you have a nickname?")
4
 else
5
                                   elif
6
      if name == "Alyssa":
           print("I love Comp110!")
7
8
      else:
9
           print("Nice to meet you, " + name)
```



```
1 name: str = input("Name? ") 1 1
2 2
3 if len(name) > 6: 3
4 print("Do you have a nickname?") 4
5 else: 5 else: 5 else: 5 else: 5 else: 5 else: 7 print("I love Comp110!") 6
8 else: 7 print("I love Comp110!") 6
9 print("Nice to meet you, " + name) 8
```

```
1 name: str = input("Name? ")
2
3 if len(name) > 6:
4     print("Do you have a nickname?")
5 elif name == "Alyssa":
6     print("I love Comp110!")
7 else:
8     print("Nice to meet you, " + name)
```

Memory Diagram

a: int = 21 **b:** int = 62 3 if a > b: 4 print(a-b) 5 elif **b** < 10: print(b/a) 6 7 else: print(a+b) 8 print(b) 9

Stack	
Globals	<u>Output</u>

Memory Diagram

Stack	
Globals	<u>Output</u>