Let me check: solutions

# Task 1 - Which for which

| I would use... |  | whenever I want to... |
| --- | --- | --- |
| 1. input 2. print 3. while 4. if 5. = |  | 1. perform actions repeatedly 2. display to the screen 3. check a condition, to select which actions to perform 4. read from the keyboard 5. assign a value to a variable |

**Answers**

| 1 | D | 2 | B | 3 | A | 4 | C | 5 | E |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

# Task 2 - Walkthrough

**Read** the Python program below:

Note: There may be errors in the program and/or it may not behave as expected.

| 1  2  3  4 | a = int(input())  b = int(input())  avg = b + a / 2  print(avg) |
| --- | --- |

**Question**

When this program is executed, assuming the user types 12 and 2 on the keyboard, what will be displayed on the screen?

* 1. 2 + 12 / 2
  2. 13
  3. 7
  4. 8

| **Answer** | D |
| --- | --- |

# Task 3 - Walkthrough

**Read** the Python program below:

Note: There may be errors in the program and/or it may not behave as expected.

| 1  2  3  4  5  6 | a = int(input())  b = int(input())  max = a  if b > max:  max = b  print(max) |
| --- | --- |

**Question**

When this program is executed, assuming the user types 12 and 2 on the keyboard, what will be displayed on the screen?

* 1. Nothing will be displayed on the screen
  2. 2
  3. 12
  4. max

| **Answer** | A |
| --- | --- |

# Task 4 - Identify

**Read** the Python program below:

Note: There may be errors in the program and/or it may not behave as expected.

| 1  2  3  4  5  6  7  8 | a = int(input())  b = int(input())  avg = a + b / 2  print(avg)  max = a  if b > max:  max = b  print(max) |
| --- | --- |

| List the **variables** in the program: |  | a, b, avg, and max |
| --- | --- | --- |
| List the lines that contain **assignments**: |  | lines 1, 2, 3, 5, and 7 |
| Identify an **arithmetic expression** in the program and copy it here: |  | a + b / 2  (line 3) |
| Identify a boolean expression (a **condition**) in the program and copy it here: |  | b > max  (line 6) |
| List the lines in the program that **may never be executed**: |  | lines 7 and 8 will **not** be executed when a is greater than b |

Resources are updated regularly - the latest version is available at: [the-cc.io/curriculum](http://the-cc.io/curriculum).



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