

3.2 – rock, paper, scissors algorithm

Q1.

The algorithm in the figure below simulates the game of rock–paper–scissors.

Player 1 enters the number 1 for paper, the number 2 for rock or the number 3 for scissors. Player 2 then does the same.

You should assume that the numbers entered by the players are stored as integers.

Note: line numbers have been included but are **not** part of the algorithm.

```
1  options ← ["paper", "rock", "scissors"]
2  player1 ← USERINPUT
3  player2 ← USERINPUT
4  player1won ← false
5  draw ← false
6  IF player1 = 1 THEN
7      IF player2 = 2 THEN
8          player1won ← true
9      ENDIF
10 ENDIF
11 IF player1 = 2 THEN
12     IF player2 = 3 THEN
13         player1won ← true
14     ENDIF
15 ENDIF
16 IF player1 = 3 THEN
17     IF player2 = 1 THEN
18         player1won ← true
19     ENDIF
20 ENDIF
```

(a) Tick the line of code that is equivalent to lines 6 and 7 together.

Line of code	Tick one box
IF player1 = 1 OR player2 = 2 THEN	<input type="checkbox"/>
IF player1 ≠ player2 THEN	<input type="checkbox"/>
IF player1 = 1 AND player2 = 2 THEN	<input type="checkbox"/>

(1)

(b) What data structure has been used for options?

(1)

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Roman Wölfel

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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