

**Paper Reference 4CP0/01
Pearson Edexcel
International GCSE (9 – 1)**

**COMPUTER SCIENCE
PAPER 1: PRINCIPLES OF COMPUTER SCIENCE**

Monday 20 May 2019 – Afternoon

**TIME: 2 hours (plus your additional
time allowance)**

Data Book

Contents:

Q2 (c) – Figure 1.

Q2 (d) – Components used to connect to the internet.

Q3 (d) – Table.

**Q4 (d) – Space to construct an expression to show the number
of blocks required to store the file.**

Q5 (a) – Figure 2.

Q5 (b) – Figure 3.

Q5 (c) – Figure 4.

Q5 (c) (i) – Trace table.

Q61880A

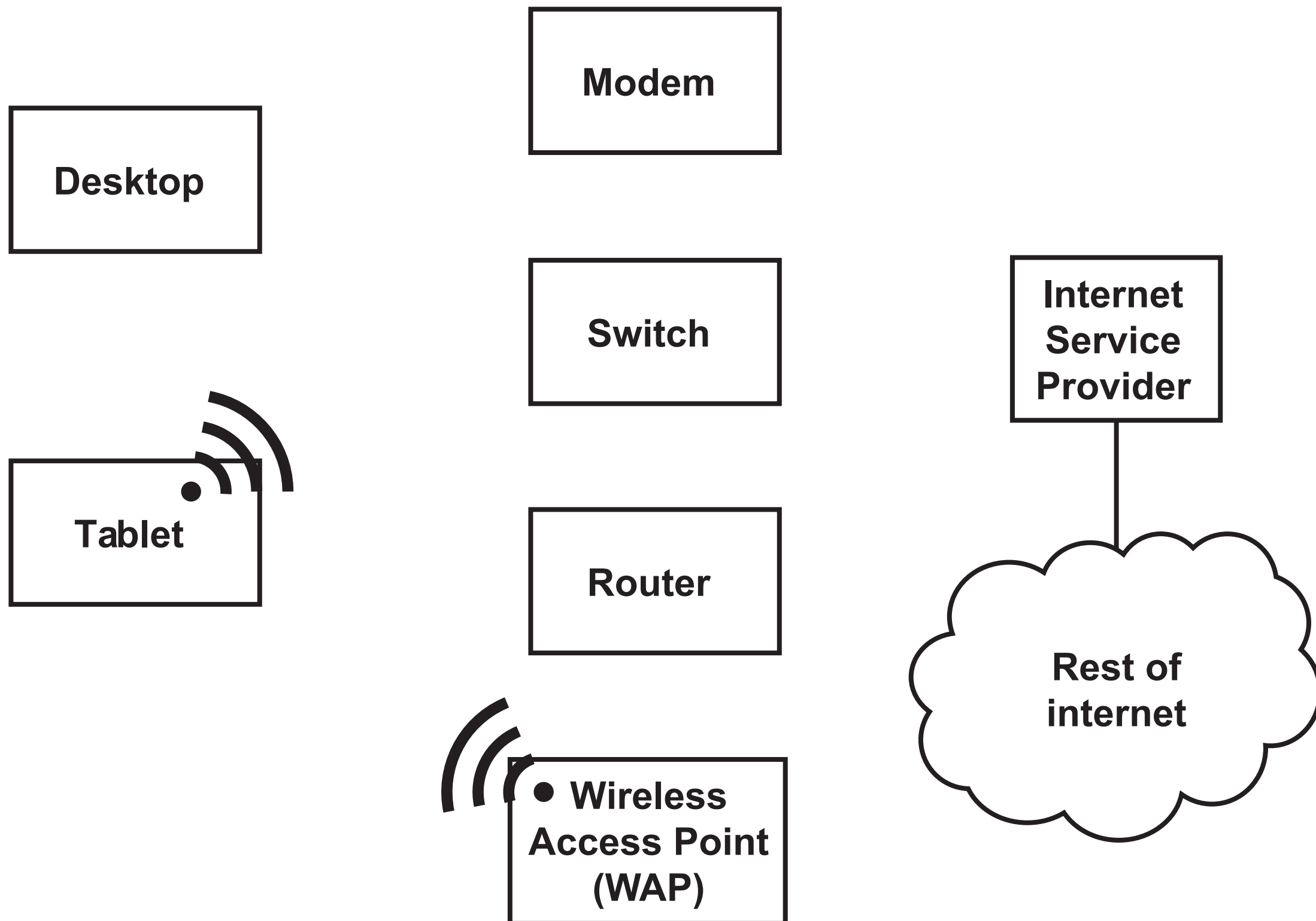
Question 2 (c)
Figure 1



PEARSON’S MACHINE	ZAFER’S MACHINE
MAC address: 03-57-00-EC-4B-30 IPv4 address: 2.20.38.113 IPv4 Subnet Mask: 255.255.0.0 Website domain: www.pearson.com Main web page: https://www.pearson.com/uk/	MAC address: 00-15-00-BC-9A-90 IPv4 address: 192.168.1.78 IPv4 Subnet Mask: 255.255.255.0 Web browser Uniform resource locator: www.pearson.com

Question 2 (d)

Components used to connect to the internet.



Question 3 (d)
Table.

CHARACTERISTIC	BUS	RING	STAR	MESH
Network performance degrades as more devices are added.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
All devices are directly connected to all others.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Each node has a physical attachment to a routing device.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
There are no data collisions, because packets travel in the same direction.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

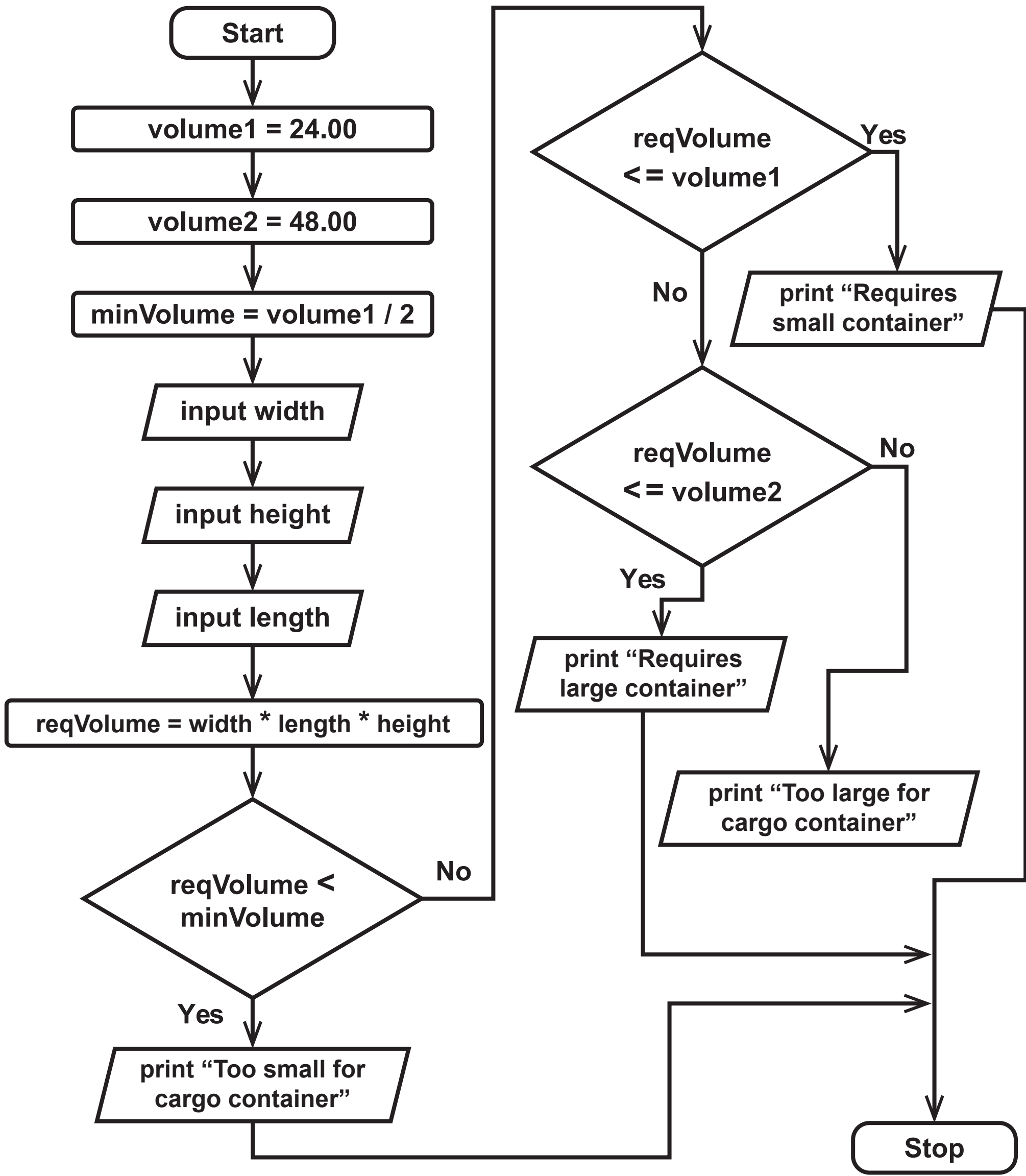
Question 4 (b)

Construct an expression to show how the file size, in megabytes, is calculated.

Question 4 (d)

Construct an expression to show the number of blocks required to store the file.

Question 5 (a)
Figure 2.



Question 5 (a) (i)
Table.

CARGO ITEM			OUTPUT
WIDTH	LENGTH	HEIGHT	
4	4	2	
2	2	2	
3	8	5	

Question 5 (b)

Figure 3.

SET numStates TO 0

SET states TO ["France", "Singapore", "Malta", "Panama", "Greece", "Italy"]

FOR EACH state FROM states DO

END FOREACH

Question 5 (c)

Figure 4.

```
2  SET loadWeight TO [20000, 28000, 40000, 50000]
3  SET index TO 0
4  SET found TO FALSE
5
6  SEND "Enter cargo weight" TO DISPLAY
7  RECEIVE target FROM (INTEGER) KEYBOARD
8
9  WHILE (NOT found) DO
10     IF (loadWeight [index] >= target) THEN
11         SEND loadWeight [index] TO DISPLAY
12         SET found TO TRUE
13     ELSE
14         SET index TO index + 1
15     END IF
16 END WHILE
17
18 IF (NOT found) THEN
19     SEND "No ship available" TO DISPLAY
20 END IF
```

Question 5 (c) (i)
Trace table.

[illegible]