

A



A-LEVEL

COMPUTER SCIENCE

Paper 1

7517/1

INSERT

**FIGURES 3, 4, 5, 6 and 7 for use in
answering Question 4**

[Turn over]

FIGURE 3

```
FUNCTION G(V, P)
  Visited[V] ← True
  FOR EACH N IN ConnectedNodes[V]
    IF Visited[N] = False THEN
      IF G(N, V) = True THEN
        RETURN True
      ENDIF
    ELSE IF N ≠ P THEN
      RETURN True
    ENDIF
  ENDFOR
  RETURN False
ENDFUNCTION
```

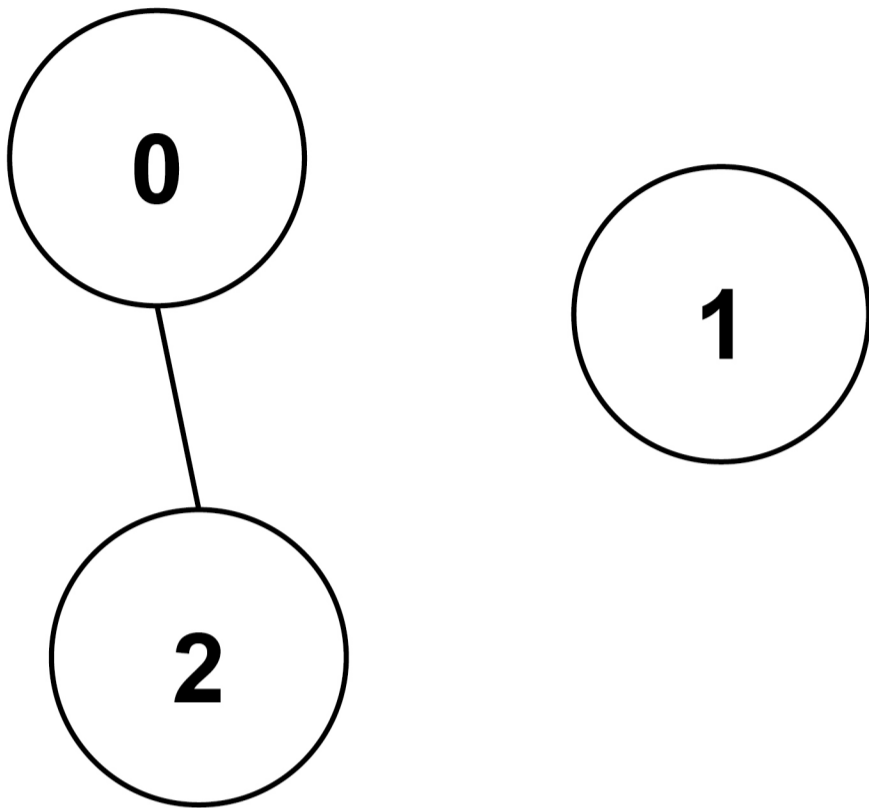
FIGURE 4

```
FUNCTION F ()
  FOR Count ← 0 TO LENGTH(Visited) - 1
    IF Visited[Count] = False THEN
      RETURN False
    ENDIF
  ENDFOR
  RETURN True
ENDFUNCTION
```

FIGURE 5

```
FUNCTION E ()
  Set all elements of Visited to False
  IF G(0, -1) = True THEN
    RETURN False
  ELSE
    RETURN F ()
  ENDIF
ENDFUNCTION
```

[Turn over]

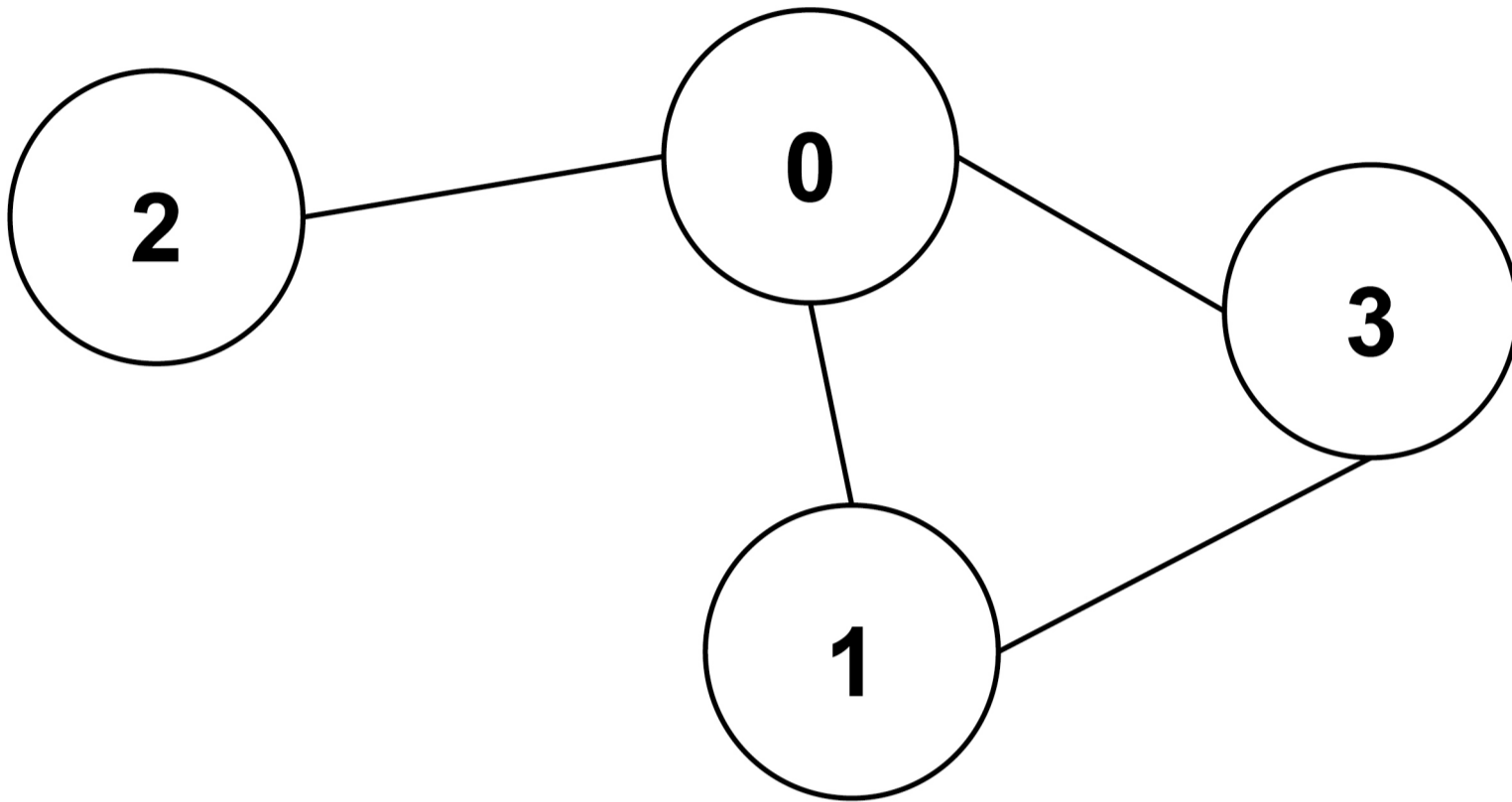
FIGURE 6**ConnectedNodes**

[0]	[1]	[2]
2		0

Visited

[0]	[1]	[2]
True	False	True

FIGURE 7



ConnectedNodes

[0]	[1]	[2]	[3]
1, 2, 3	0, 3	0	0, 1

END OF SOURCES

BLANK PAGE

Copyright information

For confidentiality purposes, all acknowledgements of third-party copyright material are published in a separate booklet. This booklet is published after each live examination series and is available for free download from www.aqa.org.uk.

Permission to reproduce all copyright material has been applied for. In some cases, efforts to contact copyright-holders may have been unsuccessful and AQA will be happy to rectify any omissions of acknowledgements. If you have any queries please contact the Copyright Team.

Copyright © 2022 AQA and its licensors. All rights reserved.

IB/M/CD/Jun22/7517/1/E1

