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AQA

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
```
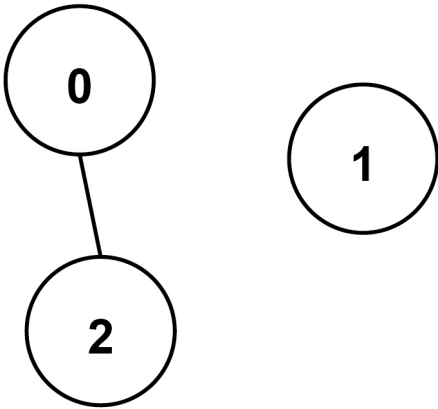
FIGURE 4

```
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
```
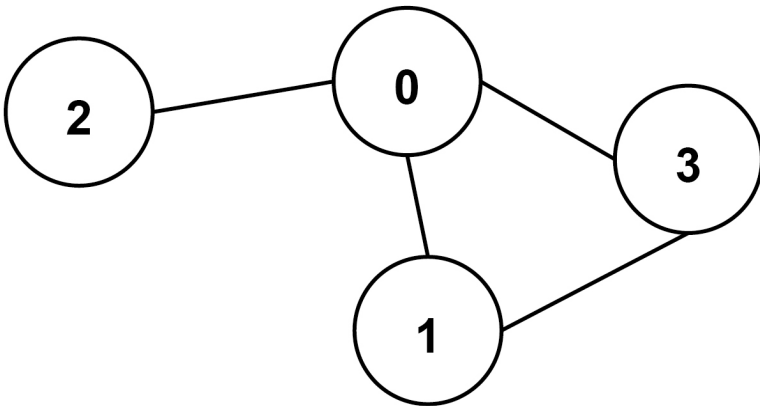
[Turn over]

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

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