

# Software Design and Development 2003 :

## Multiple Choice Question 11

### Question 11

Consider the following algorithm.

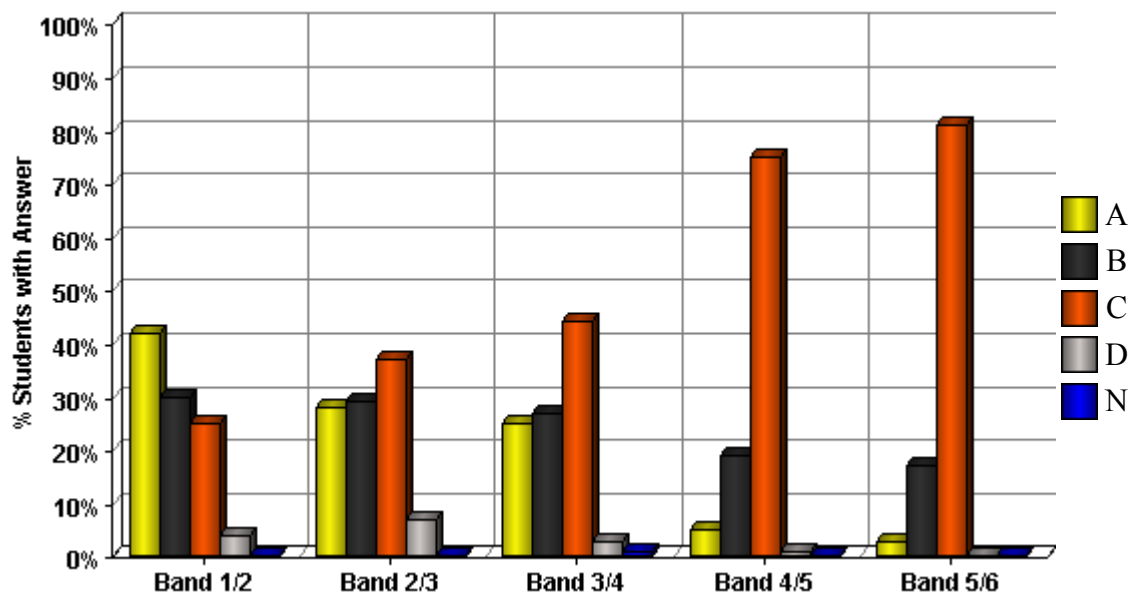
```
BEGIN
  READ first_number, second_number
  REPEAT
    total = first_number + second_number
    first_number = second_number
    second_number = total
  UNTIL total > 8
  PRINT second_number
END
```

If first\_number = 1 and second\_number = 2, what is the first value of second\_number printed by the program?

- A 5
- B 8
- C 13
- D 21

### HSC Statistics on this Question:

This question appeared as Question 11 in HSC Examination 2003



Band 1/2 Band 2/3 Band 3/4 Band 4/5 Band 5/6

A	42%	28%	25%	5%	3%
B	30%	29%	27%	19%	17%
C	25%	37%	44%	75%	81%
D	4%	7%	3%	1%	0%
N	0%	0%	1%	0%	0%

The table and graph show, for the groups of students whose marks in the examination corresponded to the borderline between two bands, what percentages of each group selected the responses A, B, C and D. N is used to identify: No valid response.