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"3-a-day" A-Level Exam Practice Unit 2 (008)

Question 1	
Iteration is one of the three basic constructs of procedural programming languages.	
State the names of the other two basic constructs.	
1	
2	
[2]	
Question 2	
The FOR loop and the WHILE loop are two different types of iteration construct.	
Describe one difference between a FOR loop and a WHILE loop.	
Question3	
As part of her A-Level Computing project, Myriam writes the following code which displays how a bank investment will grow each year.	
01 PROCEDURE B(p: INTEGER, r: REAL, t: INTEGER) 02 FOR i = 1 to t	
$\begin{array}{ccc} 03 & p = p + p * r \\ 04 & \text{OUTTRUT} + p \end{array}$	
04 OUTPUT t, p 05 NEXT i	
06 END PROCEDURE	
State how many lines will be output if the procedure is called with the following arguments.	
p = 10000, r = 0.05, t = 3	
Number of lines output	
P = 2500, r = 0.25, t = 0	
Number of lines output	
[2]	
Rewrite this procedure so that it uses a WHILE loop instead of a FOR Loop.	
[4]	

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