## Congratulations! You passed!

 $\textbf{Grade received}\ 100\% \quad \textbf{To pass}\ 80\%\ or\ higher$ 

Go to next item

1. Wh	hich has the largest time to compute?	1/1 point
0	0 (1)	
0		
•	) o(n)	
(	<ul> <li>Correct         That's correct! This is known as linear time. As the input increases so does the time to compute an output.     </li> </ul>	
2. Gi\	iven the following lines of code pseudocode;	1/1 point
	= 7	, ,
FO	OR i = 1 TO N:	
	output(i)	
	) o (n^2)	
_	0 (1)	
	) o (n)	
	<ul> <li>Correct         That's correct! As the loop is set to the size of N, when N increases so does the time complexity.     </li> </ul>	
	iven the following lines of code pseudocode;	1 / 1 point
	r = 7	
FO	OR $i = 1$ TO N:	
	FOR $j = 1$ TO N:	
	output(N)	
0		
_	) o(n^2)	
O	) 0(1)	
(	○ Correct     That's correct. There are 2 loops so every time the application runs, it must do N*N executions.	
4. Giv	iven the following lines of code pseudocode:	1/1 point
N	= 37	
FO	OR $i = 1$ TO N:	
	j = 1	
	WHILE j < 10:	
	output(j*N)	
	j = j + 1	
0	) o(n^2)	
	) o(1)	

	Ocrrect That's correct. The inner loop is only run a finite number of times that does not increase with N.	
5.	Given the following lines of code pseudocode:	1/1 point
	N = 10	
	FOR i = 1 TO 5:	
	FOR $j = 1$ TO i:	
	<pre>output(i*j)</pre>	
	O o(n^2)	
	O (Log N)	
	○ Correct     That's correct. As I is limited to 5. Regardless of how large the input becomes it will always be limited to the number of executions.	
6.	Given the following lines of code pseudocode: output(N)	1/1point
	N = 7	
	FOR $i = 1$ TO N:	
	FOR $j = 1$ TO N:	
	output (N)	
	○ (n^2)	
	○   ○ (N)	
	O 0(1)	
	○ Correct     That's correct. There are 2 loops so every time the application runs, it must do N*N executions.	