

Part 1: Tracing

1.

[illegible]

[illegible]

14							2			
15										2
14							3			
15										3
14							5			
15										5

2.

Line #	i	j	k	Loop Condition (Line 1) (T/F)	Loop Condition (Line 2) (T/F)	Loop Condition (Line 3) (T/F)	Loop Condition (Line 4) (T/F)	Output
1	0			T				
2		0			T			
3						F		
2		1						
3						T		
4			0				T	
5								"Aye Aye"
4			1				T	
5								Is a Lemur
4			2				T	
5								Found on the eastern coast of Madagascar
4			3				F	

6								
2		2			T			
3						F		
2		3			F			
1	1			T				
2		0			T			
3						F		
2		1						
3						F		
2		2			T			
3						T		
4			0				T	
5								Wombat
4			1				T	
5								Is a medium sized marsupial
4			2				T	
5								Found only in australia and its surrounding islands
4			3				F	
6								
2		3			F			
1	2			T				

2		0			T			
3						T		
4			0				T	
5								Zebu
4			1				T	
5								Is a species of cattle
4			2				T	
5								Found in the jungles of south asia
4			3				F	
6								
2		1			T			
3						F		
2		2			T			
3						F		
2		3			F			
1	3			F				

3.

Line #	animals	i	Loop Condition (T/F)	animal	Output
1	Echidnas				
2	Echidnas, Ferret				
3	Echidnas, Ferret, Gar				
4	Echidnas, Ferret, Gar, Impala				
5	Echidnas, Ferret, Gar, Impala, Kudu				
6					Original Arraylist
7		0	T		
8					Echidnas
7		1	T		
8					Ferret
7		2	T		
8					Gar
7		3	T		
8					Impala
7		4	T		
8					Kudu
7		5	F		
9	Quokka,				

	Echidnas, Ferret, Gar, Impala, Kudu				
10	Quokka, Echidnas, Pika, Ferret, Gar, Impala, Kudu				
11	Quokka, Numbat, Pika, Ferret, Gar, Impala, Kudu				
12	Quokka, Numbat, Pika, Ferret, Impala, Kudu				
13					Modified Arraylist:
14				Quokka	
15					Quokka
14				Numbat	
15					Numbat
14				Pika	
15					Pika
14				Ferret	
15					Ferret
14				Impala	
15					Impala
14				Kudu	
15					Kudu