Methods - July 19, 2022

Trace Drawing Loops

pg1-2: Task 1 - Mystery(5)

pg3: Task 2 - Reverse

Group 2:

Yeidy, David M, Kate, Ashley

```
Task 1: Trace Diagram 7/19/22

public static int mystery(int n) {
    if (n == 0)
        return 1;
    else
        return 2 * mystery (n - 1);
}

mystery(5);
```

Group J.: Yeidy, Kate, Ashley, David						
L00p #	n Work it out!		return			
-	n==0	return 1	Task find:			
	n!==0	d x mystery (n - 1)	mystery(5)			
-	6	parameter n = 5	37			
ı	4	d x mystery (4)	2 x mystery (4) 2 x 16 = 32			
7	3	d x mystery (3)	$3 \times \text{mystery} (3)$ $3 \times 8 = 16$			
3	7	d x mystery (d)	$\lambda \times \text{mystery} (\lambda)$ $\lambda \times 4 = 8$			
4	1	d x mystery (1)	$\lambda \times \mu y stery (1)$ $\lambda \times \lambda = 4$			
5	0	d x mystery (0)	$\frac{\lambda}{\lambda} \times \text{mystery } (0)$			
6	0	parameter n==0 return 1				

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		e Diagram Reverse Kate, Ashley, David	<pre>public static String reverseR(String s) { if (s.length() < d) { return s; } else { return reverseR(s.substring(l, s.length())) + s.substring(O, 1); }</pre>	
Loop #	s	Work it out!	return	. · ·
-	even	reverseR (ven) + "e"	reverseR(ven) + "e" neve	reverseR("even")
ı	ven	reverseR(en) + "v"	reverseR(en) + "v" nev	
7	en	reverseR(n) + "e"	reverseR(n) + "e" `ne	
3	n		n	

