

2019-04-16 PA #5 Tips

Tuesday, April 16, 2019 9:00 AM

Objective: generate a sequence of 0s and 1s based on priority

- The most common items should have the shortest sequence

Approach #1: Convert an integer into a "binary" number

func(int x)

↳ 0 → 0
↳ 1 → 1
↳ 2 → 10
↳ 3 → 11
⋮

4 tests of 9

9 → 1001	1001	1001	1001	#1 (INT)
8 0001	8 0010	8 0100	8 1000	
0001	0000	0000	1000	
1	0	0	8	#2 (INT)
" 1	0	0	1"	#3 (STR)

Approach #2: generating N possible permutations

add a zero before;
add 1 after

0
00
01
10
11
000
001
010
011
100
101
110
111

Same to add 0 and 1 after, easier to program