66070014 ทพงศ์ สุดสี

SUBJECT: Homework 13 Recursion NO: .... DATE: ..../..../....

1. หา ex_1(32)

ex_1(32) = 32 + ex_1(16) → 42

ex_1(16) = 16 + ex_1(8) → 26

ex_1(8) = 8 + ex_1(4) → 18

ex_1(4) = 4 + ex_1(2) → 14

ex_1(2) = 2 + ex_1(1) → 12

ex_1(1) = 12

∴ ex_1(32) = 74 ★

2. หา ex_2(0)

	ผลลัพธ์
ex_2(0) Print 0 Hello!	0 Hello!
↳ ex_2(2) Print 2 Hello!	2 Hello!
↳ ex_2(4) Print 4 Hello!	4 Hello!
↳ ex_2(6) Print 6 Hello!	6 Hello!
↳ ex_2(8) Print Go Back	Go Back!
ex_2(6) Print 6 Bye!	6 Bye!
ex_2(4) ↵ Print 4 Bye!	4 Bye!
ex_2(2) ↵ Print 2 Bye!	2 Bye!
ex_2(0) ↵ Print 0 Bye!	0 Bye!

(ย้อนกลับไป ฟังก์ชันก่อนหน้า — for the Bye! lines)

3.1 ex_3(4) → 12 ✱

3.2 ex_3(10) → 2 × ex_3(5) + 7 = 14 + 7

↳ 2 × ex_3(0) + 7 = 7

↳ 0

∴ ex_3(10) = 21 ✱

3.3 ex_3(17) → 2 × ex_3(12) + 7 = 90 + 7

↳ ex_3(12) = 2 × ex_3(7) + 7 = 45

↳ ex_3(7) = 2 × ex_3(2) + 7 = 19

↳ 6

∴ ex_3(17) = 97 ✱