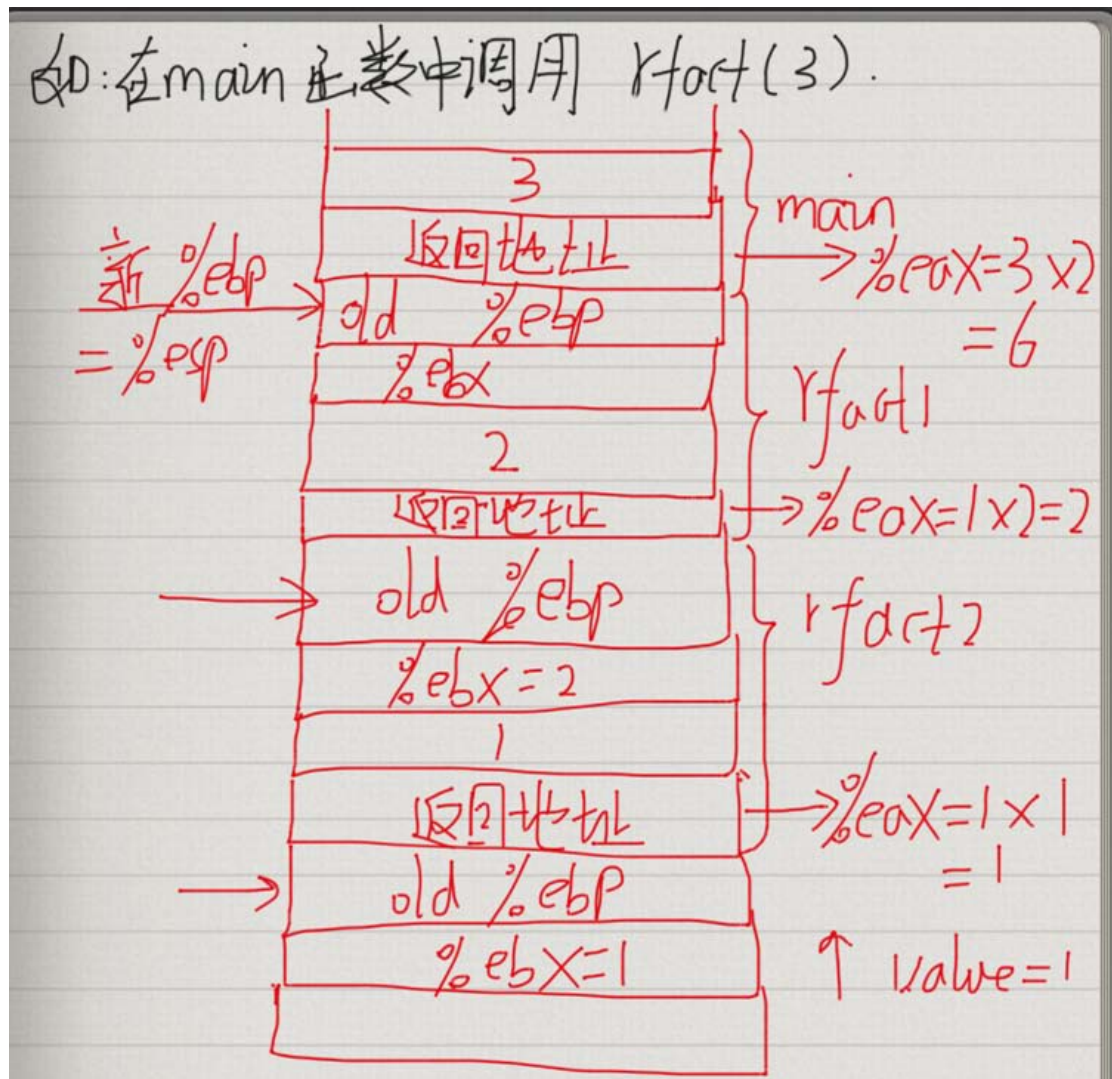


Problem1



Problem2

Array	Size of Element	Size of Array	Start Address	Address of i-th Element
S	2	10	s	$s + 2 * i$
T	4	16	t	$t + 4 * i$
U	4	24	u	$u + 4 * i$
V	8	64	v	$v + 8 * i$
W	4	28	w	$w + 4 * i$

Problem 3

Questions:

A. In line 3, what value is assigned to %ebp

0x80003C

B. Where are local variables x and y stored (Indicate their addresses)

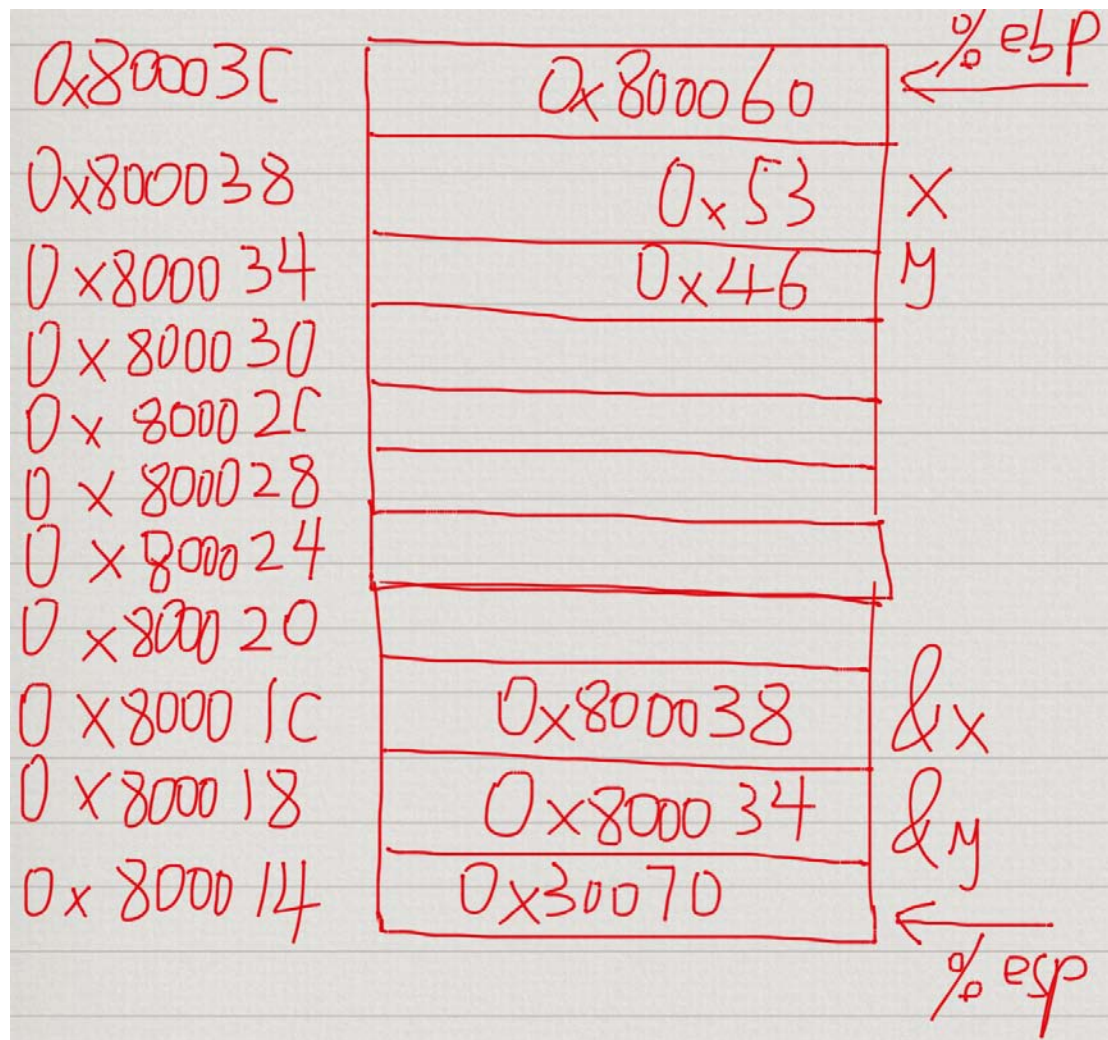
x: 0x800038

y: 0x800034

C. What is the value of %esp after line 10

0x800014

D. Draw a diagram to illustrate the stack frame after scanf returns



E. Indicate the unused stack frame of proc(). (p.s. these areas are allocated to improve the performance of high-speed cache)

0x800020 ~ 0x800033 are unused.