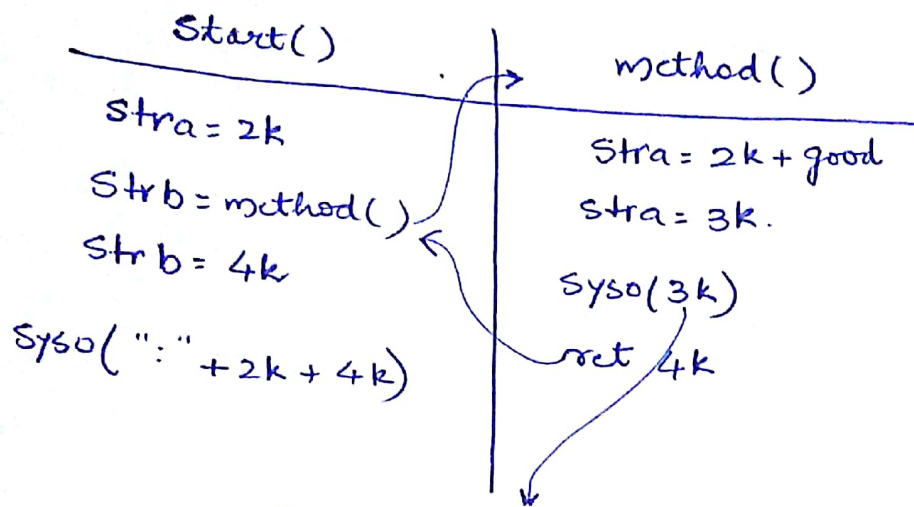


Question Link: [cb.lk/27](https://leetcode.com/problems/concatenation-of-array-elements-to-form-the-target-string)

RECURSION Q'S

Q1:



Intexns Pool

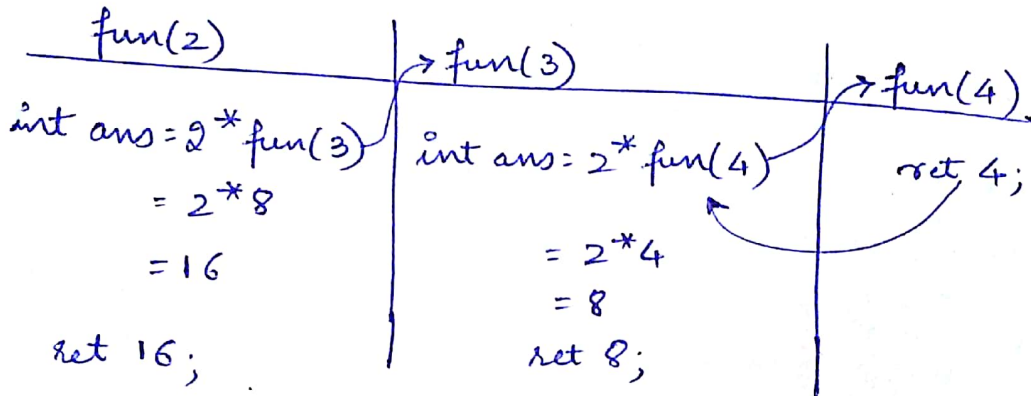
2k "do"

3k "dogood"

4k "good"

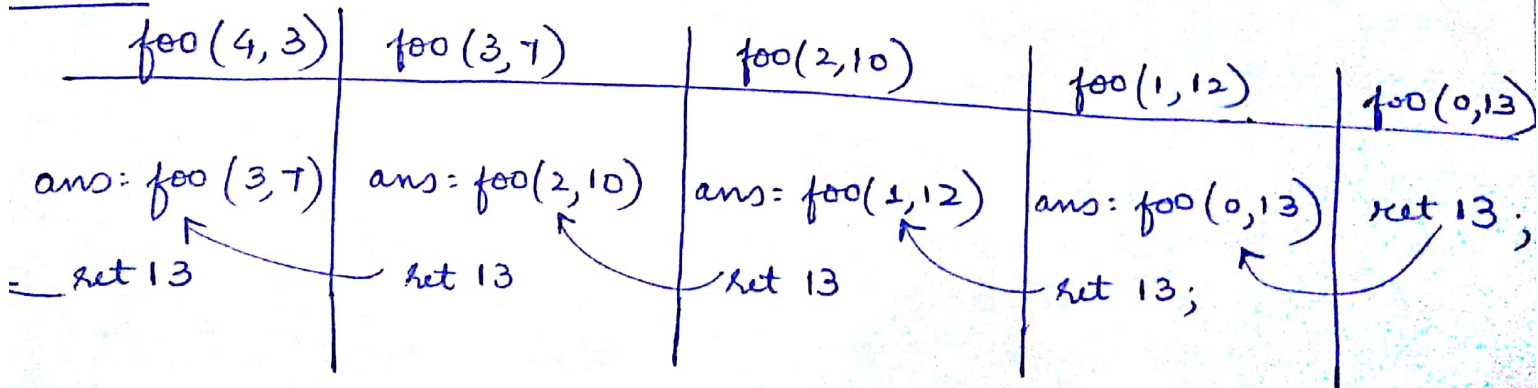
Ans: dogood : dogood

Q2:



Ans: 16

Q3:



Ans: 13

Q4:

$\text{fun}(25)$	$\text{fun}(12)$	$\text{fun}(6)$	$\text{fun}(3)$	$\text{fun}(1)$	$\text{fun}(0)$
$\text{syso}(25/2)$	$\text{syso}(12/2)$	$\text{syso}(6/2)$	$\text{syso}(3/2)$	$\text{syso}(1/2)$	ret;
$\text{fun}(12)$	$\text{fun}(6)$	$\text{fun}(3)$	$\text{fun}(1)$	$\text{fun}(0)$	

Ans: 10011

(This program basically finds out binary representation of a given no. n).

Q5:

$\text{fun}(4, 3)$	$\text{fun}(8, 1)$	$\text{fun}(16, 0)$
$\text{fun}(8, 1) + 4$	$\text{fun}(16, 0) + 8$	ret 0;
ret $8 + 4$	ret $0 + 8$	

Ans: 12

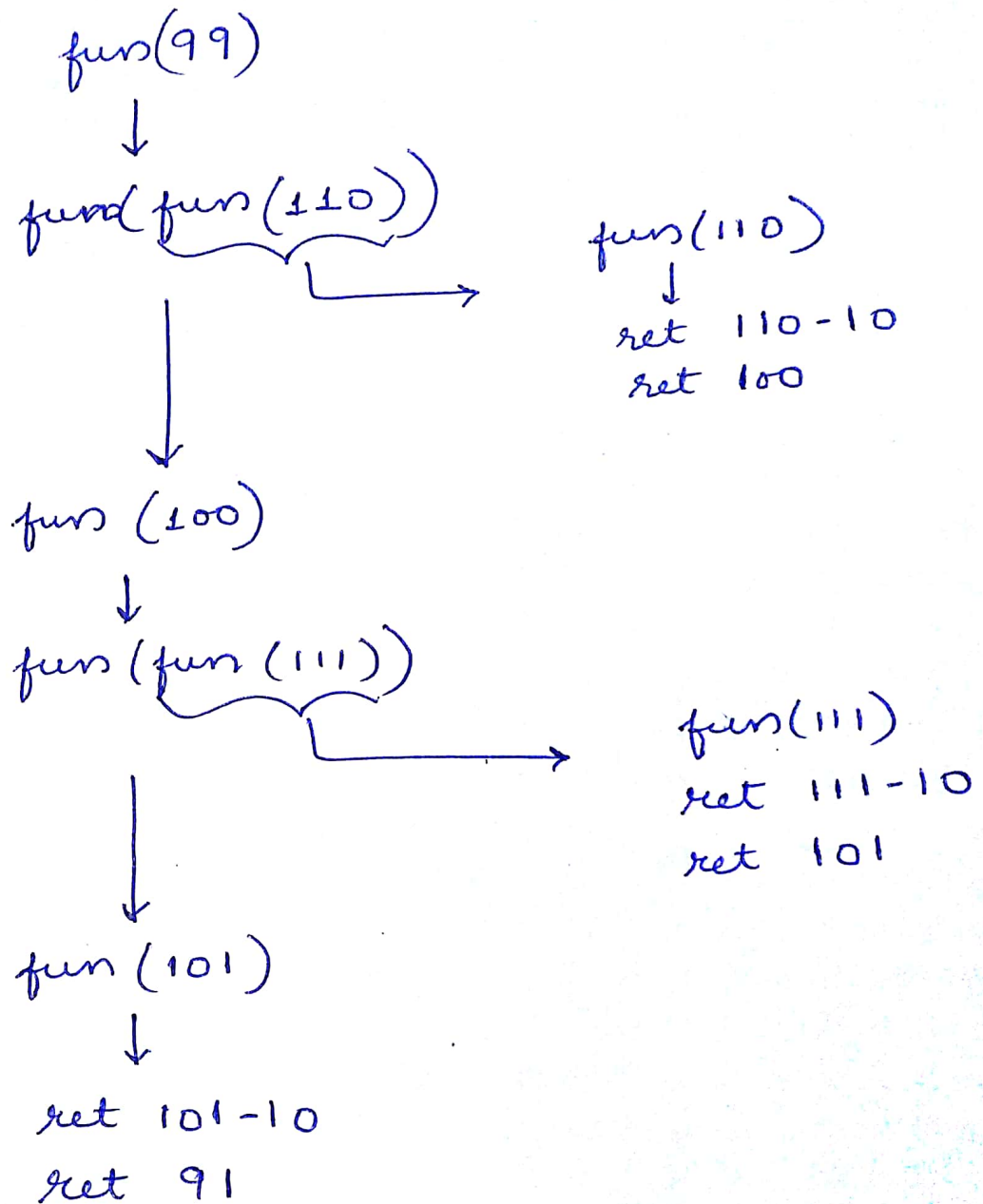
(This program basically computes $a * b$)

Q6:

$\text{fun}(4, 3)$	$\text{fun}(16, 1)$	$\text{fun}(256, 0)$
$\text{fun}(16, 1) * 4$	$\text{fun}(16 * 16, 0) * 16$	ret 1;
ret $16 * 4$	ret $1 * 16$	

Ans: 64 (This program computes a^b (a^b))

Q7:



Ans: 91