Assignment name : count\_of\_2

Expected files : count\_of\_2.c

Allowed functions: None

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Implement a function which counts, for a given integer n, the number of 2s

that appear in all the numbers between 0 and n (inclusive).

Your function must be declared as follows:

int count\_of\_2(int n);

If n <= 1, the function returns 0;

Examples:

input = 25

output = 9

because there are 9 2s in (2, 12, 20, 21, 22, 23, 24 and 25)

Note:

the number 22 counts as 2 because it has two 2s, number 202 count as 2, number 22022 count as 4 etc...