1.

2.

3.

(1) O()

i will iterate from 0~n-1, it take n times

j will iterate from 0~n-1 each i, it take times

k will iterate from 0~n-1 each j, it take times

total cost

when

So the time complexity is O()

(2)

i will iterate from 0~n-1, it take n times

j will iterate from 0~n-1 each i, it take times

k will iterate from 0~n-1 each j, it take times

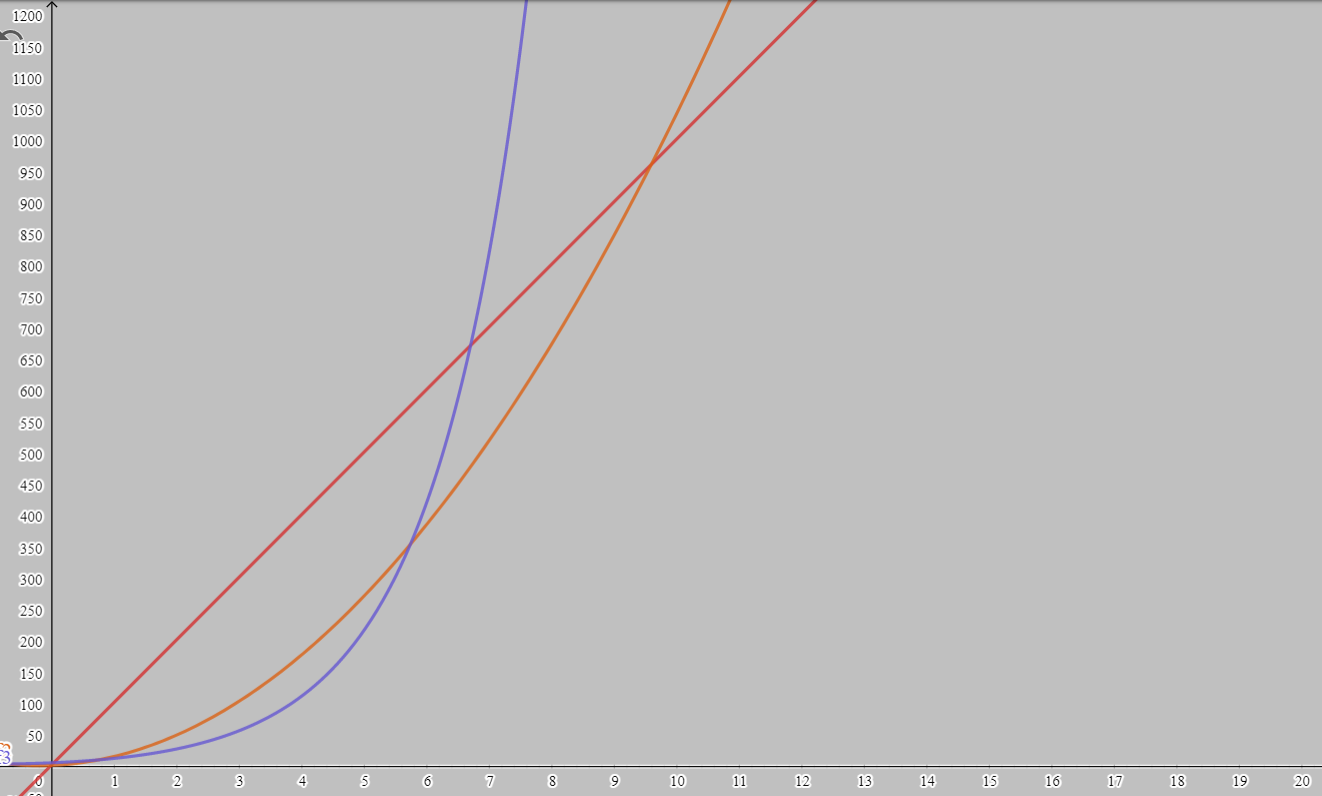
total cost

when

So the time complexity is O()

4.

(1)



f1

f2

f3

(2) f3’(n)>f2’(n)>f1’(n), when n>=4.8

O(f1(n))=O(n)

O(f2(n))=O()

O(f3(n))=O()

(3) O() is meaning ,

so the constant can put into c

(4)

let c = 2, , then ‘s time complexity is O()