

C. Hot Bath

time limit per test: 2 seconds
memory limit per test: 256 megabytes
input: standard input
output: standard output

Bob is about to take a hot bath.

There are two taps to fill the bath: a hot water tap and a cold water tap. The cold water's temperature is t_1 , and the hot water's temperature is t_2 . The cold water tap can transmit any integer number of water units per second from 0 to x_1 , inclusive. Similarly, the hot water tap can transmit from 0 to x_2 water units per second.

If y_1 water units per second flow through the first tap and y_2 water units per second flow through the second tap, then the resulting bath water temperature will be:

Bob wants to open both taps so that the bath water temperature was not less than t_0 . However, the temperature should be as close as possible to this value. If there are several optimal variants, Bob chooses the one that lets fill the bath in the quickest way possible.

Determine how much each tap should be opened so that Bob was pleased with the result in the end.

Input

You are given five integers t_1 , t_2 , x_1 , x_2 and t_0 ($1 \leq t_1 \leq t_0 \leq t_2 \leq 10^6$, $1 \leq x_1, x_2 \leq 10^6$).

Output

Print two space-separated integers y_1 and y_2 ($0 \leq y_1 \leq x_1$, $0 \leq y_2 \leq x_2$).

Examples

input
10 70 100 100 25
output
99 33

input
300 500 1000 1000 300
output
1000 0

input
143 456 110 117 273
output
76 54

Note

In the second sample the hot water tap shouldn't be opened, but the cold water tap should be opened at full capacity in order to fill the bath in the quickest way possible.