# Problem PH
# Bank Deposit Challenge

Time limit: 1 second
Memory limit: 1024 megabytes

## Problem Description

$N$ banks offer their own one-year deposit activities. For bank $i$, ($v_i$, $w_i$) denotes the yearly deposit interest and deposit limit of its activity, respectively. When a depositor selects the activity of bank $i$, he/she must deposit an amount of money equal to $w_i$ to cover a whole year. Note that a depositor can choose an activity only once. If a depositor has only cash $C$ to participate in the deposit activities, what is the maximum deposit interest he/she can earn?

## Input Format

The first line is an integer representing the cash $C$. The second line contains $N$ integers, where the $i$-th integer indicates $v_i$. The third line also contains $N$ integers, where the $i$-th integer indicates $w_i$. Note that there is a space between adjacent integers.

## Output Format

An integer specifying the maximum deposit interest the depositor can earn. If no deposit interest can be earned, please output 0.

## Technical Specification

- $1 \leq N \leq 100$.
- $1 \leq C \leq 1,000$. (unit: ten thousand dollars)
- $1 \leq v_i \leq 540$. (unit: one thousand dollars)
- $1 \leq w_i \leq 300$. (unit: ten thousand dollars)

## Sample Input 1

```
100
10 5 15 7
20 30 50 70
```

## Sample Output 1

```
30
```

## Sample Input 2

```
500
72 2 2 10 12 10 10 17 13 15
120 10 5 20 25 100 80 300 50 100
```

## Sample Output 2

```
144
```

## Sample Input 3

```
5
1 2
10 20
```

## Sample Output 3

```
0
```