Inauguration of the President

Timelimit: 1000ms Memorylimit: 128MB

1 Description

The inauguration ceremony for the new President will be hold on next monday. During the ceremony, the President has to travel around the Capital.
There are (n + 1) west-east streets and (m + 1) north-south streets which divide the Capital into n * m blocks. It's clear that the Capital has (n + 1) * (m + 1) crossings (intersections of streets) . The President will start his travel from a crossing at the southmost street, and ends at a crossing at the northmost street. The President will never head south and he will not visit a crossing twice.
The citizens will stand on both sides of every west-east street to see this ceremony. Between every two crossings contiguous on west-east streets there is a region. The capital has m * (n + 1) regions. When go throuth every region, it will cost some times and the President has to wave his hand. But the President can not wave his hand continuously for more than k minutes.
The President will get some pleasure points during each visit to a region. While not every citizen supports the President, the pleasure points he got can be zero or negative. Please help the President to find a route which can maximize the pleasure points he can get.

2 Input Format

The first line contains 3 integers n, m and k. ($1 \leq n \leq 100, 1 \leq m \leq 10000$).
The following 2 * (n + 1) lines, every two lines is the description to one west-east street (from north to south).
The first line contains m integers stand for the pleasure points he can get during visit to these regions. The second lines contains m integers stand for the time he need to go through these regions.
Every integers given will be at most $2^{31} - 1$

3 Output Format

The output contains only one line: the max pleasure points the President can get.

4 Sample Input

```
2 3 2
7 8 1
1 1 1
```

```
4 5 6
1 1 1
1 2 3
1 1 1
```

5 Sample Output

```
27
```