

## Game consoles from a given generation

Game consoles exist since the 1970s, and many companies fight for having a bigger share on the market of game consoles even today. Currently, we are in the 8<sup>th</sup> generation of game consoles. We made a short note of the game console companies that we think important. The note contains the name of the companies and the count of consoles released in each generation.

We know that a certain console was released in the 7<sup>th</sup> generation. Write a program that defines which companies could make this console. How many such companies are there, and which are those companies?

### Input

The *standard input* consists of 3 parts. The first line contains the count of companies ( $1 \leq N \leq 100$ ), then the next  $N$  lines contain the names of the companies. The first line of the second part contains the count of notes ( $1 \leq M \leq 50$ ); then come the notes themselves in  $M$  lines. A note consists of 3 numbers (separated by spaces): the ID of the console company ( $1 \leq ID \leq N$ ) based on the first part of the input, the generation ( $1 \leq G \leq 8$ ), and then the count of consoles ( $1 \leq C \leq 100$ ). The same company and generation pair is listed only once. The third part of the input is just one line: two company indexes ( $1 \leq C1, C2 \leq N$ ).

### Output

The first line of the *standard output* should contain the count and names of those companies who released consoles in the 7<sup>th</sup> generation. If there are no consoles from this generation, then write “NONE” (if this does not seem to work, try the Hungarian word “NINCS”).

### Example

<i>Input</i>	<i>Output</i>
5	1 Microsoft
Nintendo	
Sega	
Sony	
Microsoft	
Nvidia	
6	
1 1 5	
1 3 4	
2 3 4	
4 5 4	
1 4 5	
4 7 1	
1 3	

## Limits

Time limit: 0.1 second

Memory limit: 32 MB

Evaluation: In 40% of tests, the count of data is  $\leq 20$