

You have to process a files of commands. There are 2 types of commands, a read command and a reverse command. Both commands operate on a sequence of numbers, from 0 to n. The read command has the code 1 followed by an index. The command prints the number in the sequence with the given index.

The reverse command has the code 2 followed by two numbers. This command reverses the interval defined by those two numbers.

Example

After processing the following file:

```
1 7
1 133
2 1 10
1 7
1 133
1 5
2 5 7
1 7
```

The display will print the following sequence:

```
7
133
4
6
6
```

After implementing those 2 commands, try to invent and add new command types.