## 5 Transcription Tribulation

Your very competent colleague has left your organization due to a disagreement with the management. You miss them. They made the daily drudgery a bit more bearable. In a fit of pique, they have left all of their meticulous notes in some form of weird personal shorthand. You found this very funny. But now, the management wants you to pick up some of their duties. Things are suddenly ... not funny anymore.

But wait! There is some light at the end of the tunnel. You have managed to get some insight into their "system". They were mostly working on logistics and scheduling for events. Each event is represented by a number. You have a separate Excel sheet that ties events to numbers, so you do not have to worry about that. Your task is just to make sense of the actual schedule.

The schedule initially starts with a set of ' 0 ' events. These represent no event at that time slot. Then one of two tasks may be performed:

- Task ' 1 ' will increase the event number for all events between 2 event slots (inclusive) by a given value.
- Task ' 2 ' will tell you the event number at a particular slot.

The notes are organized as a series of tasks. You decide you need to start over and follow the task instructions until you work your way to the current schedule.

Given a number of time slots in the schedule and a list of task instructions, follow the task instructions until you arrive at the current schedule.

### 5.1 Input

The first line contains two integers ' N ' and ' M ', where N is the number of time slots in the schedule and ' M ' is the task instructions. The next ' M ' lines each describe a task instruction in one of the following formats:

1. " 1 LR X " where ' L ' and ' R ' are the left and right positions of the range of time slots to increment ( $1 \leq \mathrm{L} \leq \mathrm{R} \leq \mathrm{N}$ ) and ' X ' is the value to increment by $\left(-10^{9} \leq \mathrm{X} \leq 10^{9}\right)$.
2. " 2 P " where ' P ' is the position of the time slot to check $(1 \leq \mathrm{P} \leq \mathrm{N})$.

### 5.2 Output

For each task number 2, output the value at the queried position in a separate line.

### 5.3 Sample Input/Output

| Input | Output |
| :--- | :--- |
| 56 | 2 |
| 1 | 132 |
| 1 | 251 |
| 2 | 1 |
| 2 | 3 |
| 1445 | 1 |
| 25 |  |

