## Numbers Filter

You will receive a single number **n**. On the next **n** lines you will receive integers. After that you will be given one of the following commands:

* even
* odd
* negative
* positive

Filter all the numbers that fit in the category (0 counts as a positive and even). Finally, print the result.

### Example

|  |  |
| --- | --- |
| **Input** | **Output** |
| 5  33  19  -2  18  998  even | [-2, 18, 998] |
| 3  111  -4  0  negative | [-4] |