


```

* 3
/ -2
1000 7
* -1000
* -1000
* 1000
* 1000
* 1000
* 1000
* 1000
-1 3
- -1
* 0
/ -1
0 1
+ 0

```

In Sample Case #1, the optimal strategy is to play the * 2 card before the - 3 card, which yields a result of -1. The unique rational expression of this as specified in the problem is -1 1.

Sample Case #2 is the one described in the third paragraph of the problem statement.

In Sample Case #3, we get the same answer regardless of the order in which we use the cards. Notice that the numerator of the answer is too large to fit in 64-bit integer.

In Sample Case #4, the largest result we can achieve is 1. One way is: / -1, * 0, - -1.

In Sample Case #5, note that the only valid representation of the answer is 0 1. 0 2 is invalid because it can be reduced. 0 -1 is invalid because the denominator must be positive.

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