2600. K Items With the Maximum Sum

Description

There is a bag that consists of items, each item has a number `1`, `0`, or `-1` written on it.

You are given four **non-negative** integers `numOnes`, `numZeros`, `numNegOnes`, and `k`.

The bag initially contains:

- `numOnes` items with `1`s written on them.
- `numZeroes` items with `0`s written on them.
- `numNegOnes` items with `-1`s written on them.

We want to pick exactly `k` items among the available items. Return *the* ***maximum*** *possible sum of numbers written on the items*.

Example 1:

```
Input: numOnes = 3, numZeros = 2, numNegOnes = 0, k = 2
Output: 2
Explanation: We have a bag of items with numbers written on them {1, 1, 1, 0, 0}. We take 2 items with 1 written on them and get a sum in a total of 2.
It can be proven that 2 is the maximum possible sum.
```

Example 2:

```
Input: numOnes = 3, numZeros = 2, numNegOnes = 0, k = 4
Output: 3
Explanation: We have a bag of items with numbers written on them {1, 1, 1, 0, 0}. We take 3 items with 1 written on them, and 1 item with 0 written on it, and get a sum in a total of 3.
It can be proven that 3 is the maximum possible sum.
```

Constraints:

- `0 <= numOnes, numZeros, numNegOnes <= 50`
- `0 <= k <= numOnes + numZeros + numNegOnes`