# Maximize the Multiplication

You are given an arry of N integers A and another integer K.

You have to choose exactly k elements from the array in such a way that the product of these elements is Maximum.

Output the value of maximum possible product modulo 10^9+7.

**Function description**

Complete the maximize the Multiplication function in the editor below.It has the following Parameters(s):

|  |  |  |
| --- | --- | --- |
| Name | Type | Description |
| N | INTEGER | An integer as described in the problem. |
| A | INTEGER ARRAY | An integer array as described in the Problem. |
| K | INTEGER | An integer as described the problem. |

Return-The function must return an INTEGER denoting the Maximum possible product of K elements modulo (10^9+7)

**Constraints**

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**Input format for debugging**

The first line Contains an integer,N,denoting the number of elements in A.

Each line I of the N subsequent lines (where 0≤i<N) contains an integer describing A[i]

The next line contains an integer ,K,denoting the value K describing in the problem.

**Sample TestCases**

|  |  |  |
| --- | --- | --- |
| Input | Output | Output Description |
| 4 1 2 -4 -3 2 | 12 | N=4,A=[1,2,-4,-3],K=2  The Maximum product is obtained when we choose -4 and -3 Hence the answer is 12. |
| 4 -2 -1 -3 -4 3 | 1000000001 | N=4,A=[1,2,-4,-3],K=2  The maximum product is obtained when we choose -1,-2 and -3.Hence the answer is -6. |
| 10  1000000000  100000000  -10000000  1000000  100000  10000 | 999983200 | Use his test case for debugging. |