The Ball Problem

Byteman's birthday is coming up. Byteman's best friend Bitman has decided to gift him **K** colored balls for his birthday. Bitman goes to the ball shop to buy **K** colored balls. The ball shop has N balls available for sale. The **N** balls can have color in the range [1, $2*10^5$]. Two balls can have same color as well. The balls having same color are indistinguishable. Bitman wants to know in how many different ways he can choose **K** out of **N** balls. Two ways are considered different, if the amount of c colored balls is different in them for any color c.

Input Format:

First line contains two integers denoting **N** and **K**.
Second line contains N integer $\mathbf{A_1, A_2, ..., A_N.}$ denoting the colors of the balls.

Output Format:

Output the required answer modulo 13063 in one line.

Constraints:

$1 \le K \le N \le 2*10^5$

$1 \le A_i \le 2*10^5$

Sample Input:

4 2
3 2 2 3

Sample Output:

Three possible ways are:

Select (2, 2)
Select (2, 3)
Select (3, 3)