### ****Minimize the sum****

Given an array of integers, perform atmost K operations so that the sum of elements of final array is minimum. An operation is defined as follows -

Consider any 1 element from the array, arr[i].

Replace arr[i] by floor(arr[i]/2).

Perform next operations on the updated array.

The task is to minimize the sum after utmost K operations.

****Constraints****

1 <= N, K <= 10^5.

****Input****

First line contains two integers N and K representing size of array and maximum numbers of operations that can be performed on the array respectively.

Second line contains N space separated integers denoting the elements of the array, arr.

****Output****

Print a single integer denoting the minimum sum of the final array.

****Input****

4 3

20 7 5 4

****Output****

17

****Explanation****

Operation 1 -> Select 20. Replace it by 10. New array = [10, 7, 5, 4]

Operation 2 -> Select 10. Replace it by 5. New array = [5, 7, 5, 4].

Operation 3 -> Select 7. Replace it by 3. New array = [5,3,5,4].

Sum = 17.

****Possible Solution****

Input:

4 3

20 7 5 4