# **Pokemon League**

## **ZPRAC-16-17-Lab11**

Pokemon League
[40 Marks]
ANNOUNCEMENT:
10% marks will be allotted for using dynamic memory allocation (using malloc)
Up to 20% marks will be allotted for good programming practice. These include - Comments for non trivial code - Indentation: align your code properly

Red has N pokemons with power levels P=[p1,p2,...,pN]. Red wants to enter a pokemon contest and he must choose X numbers of pokemons from the N pokemons that he got. The contest has a rule that the cumulative power level of all the X pokemons chosen must be less than or equal to Y. Help Red maximize X.

#### Constraints::

 $1 \le N \le 10^5$  $1 \le Y \le 10^9$ 

1 ≤ PowerLevel of any pokemon ≤ 10^9

### Input Format::

First line contains two space separated integers, N and Y Second line contains N space separated integers indicating the power level of each pokemon

#### Output Format::

Print the maximum number of pokemons that Red can choose for the contest.

Example::
Input
7 50 1 12 5 111 200 1000 10
Output
4
Explanation:
He can choose only 4 pokemons at most. These pokemons have the following power levels: 1,12,5,10.