

Subnet calculator – python team task

In this task you will have to implement a subnetting calculator.

You may use only **python built-ins and python standard library** (anything you can import without installing)

Your program should follow all the structural/modularity programming principles

Input:

1. IP number
 - Valid ip number should be given (verify – hint: regex)
2. Subnet mask in CIDR (optional – if not given the subnet will be inferred from the class)
 - Verify that an integer legit valid number was input
3. Will the partitioning be according to number of hosts or number of subnets
 - Verify the input
4. Number of hosts/subnets (according to previous question)
 - Verify that an integer legit valid number was input

Output:

1. Subnet mask (in mask decimal format)
2. Subnet in CIDR
3. Number of hosts
4. Number of subnets
5. For (maximum) two first and two last subnets
 - a. Network address
 - b. Broadcast address