## **Weird King**

Abdul, the king in the North, is an abnormal person. He has a kingdom on n cities with m undirected roads joining them. Initially, for every pair of cities, there exists a path between them. Abdul likes to remove roads. When he removes a road, he gets pleasure equal to length of the removed road. Find the maximum pleasure Abdul can get, such that after even removing some roads, for every pair of cities, there exists a path between them.

#### Input

First line contains T, number of testcases. Second line contains n and m. M lines follow, each containing u,v and w, meaning there is an undirected edge between u and v, with weight w.

### Output

Output T lines, each containing the answer to the testcase.

#### **Constraints**

1<=T<=10 1<=n<=100000 1<=m<=500000 1<=u,v<=n 1<=w<=10^9

# **Sample Input**

## **Sample Output**

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