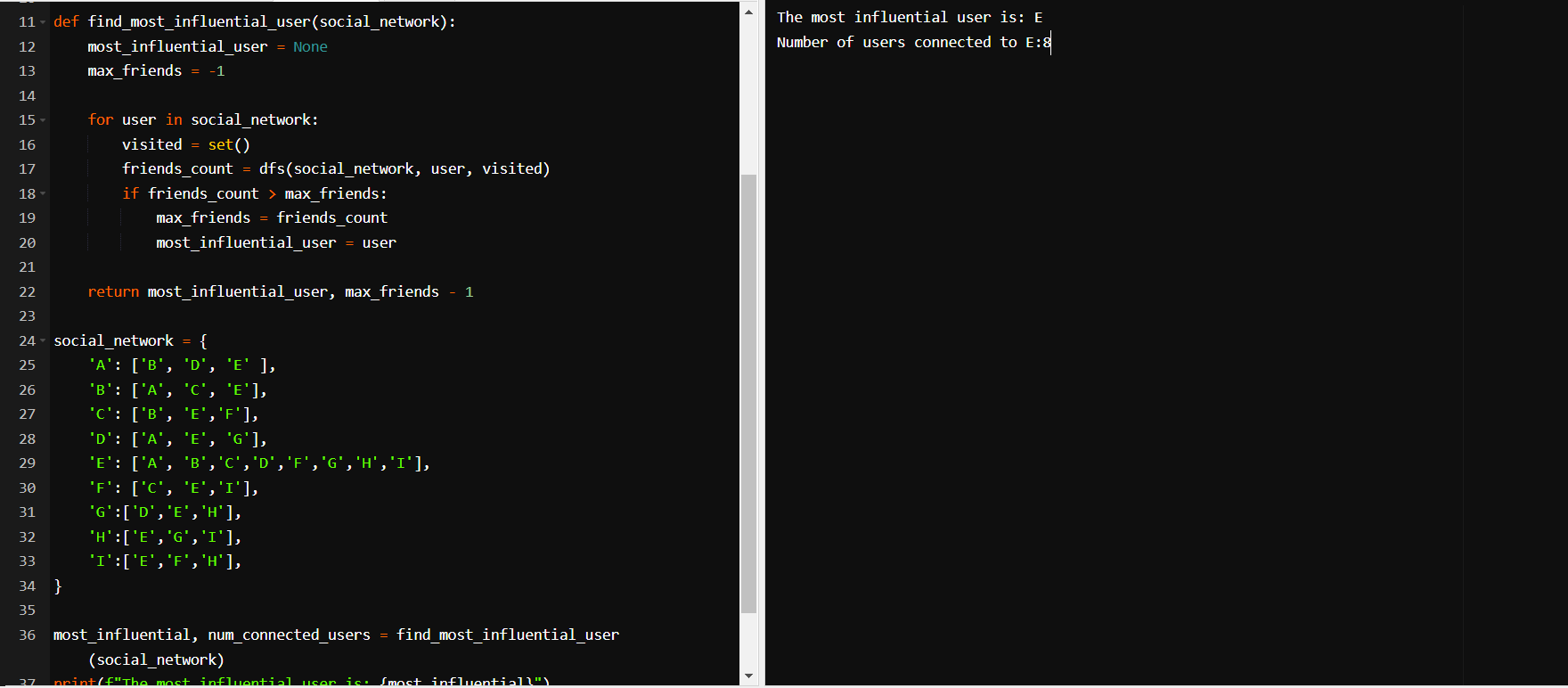
**Source Code & Output :**

****