Nice flight

Loc is a loyal Barcelona football club fan and has always had a dream of going to Camp Nou to watch his favorite players play. After working and saving a little money, Loc was ready for his trip. When preparing his luggage to depart, he found a voucher for a discount on a plane ticket, which would help him save quite a bit of money. Voucher can be applied to a flight with price x and the price of that flight will only be x/2 (it is rounded down to an integer). Please help him use the voucher wisely and find the **minimum-price flight route** from home to Barcelona.

Input:
The first input line has two integers n and m: the number of cities and flight connections ($2 <= n <= 10^5, 1 <= m <= 2 * 10^5$). The cities are numbered $1, 2, \ldots, n$. City 1 is Binh Dinh (Loc's hometown), City n is Barcelona.
After this there are m lines describing the flights. Each line has three integers a, b, and c ($1 <= a, b <= n, 1 <= c <= 10^9$): a flight begins at city a, ends at city b, and its price is c. Each flight is unidirectional.
Output:
Output the minimum price

Samples Input	Samples Output
3 4 1 2 3 2 3 1 1 3 7 2 1 5	2

Example: His flight route is 1,2,3. He used voucher on (1,2) and reduced price to 1. Price = 1 + 1 = 2