Watermelon

One hot summer day Peter and his friend Bill decided to buy a watermelon. They chose the big and ripe one, in their opinion. After that the watermelon was weighed, and the scales showed *w* kilos. They went home and decided to divide the watermelon, however they faced a hard problem.

Peter and Bill are great fans of even numbers, so they want to divide the watermelon in such a way that each of the two parts weighs even number of kilos. At the same time, it is not obligatory that the parts are equal. The boys are extremely tired and want to start their meal as soon as possible, that's why you should help them and find out whether they can divide the watermelon in the way. Note that each of them should get a part of positive weight.

**Input**

The first (and the only) input line contains integer number *w* (1 ≤ *w* ≤ 100) — the weight of the watermelon bought by the boys.

**Output**

Print YES, if the boys can divide the watermelon into two parts, each of them weighing even number of kilos; and NO in the opposite case.

**Examples**

**input**

8

**output**

YES

**Note**

For example, the boys can divide the watermelon into two parts of 2 and 6 kilos respectively (another variant — two parts of 4 and 4 kilos).