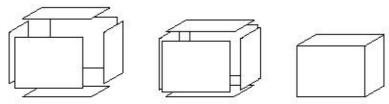
### 3214 - Box



#### Europe - Northeastern Europe & Russian Republic - 2004/2005

Ivan works at a factory that produces heavy machinery. He has a simple job -- he knocks up wooden boxes of different sizes to pack machinery for delivery to the customers. Each box is a rectangular parallelepiped. Ivan uses six rectangular wooden pallets to make a box. Each pallet is used for one side of the box.



Joe delivers pallets for Ivan. Joe is not very smart and often makes mistakes -- he brings Ivan pallets that do not fit together to make a box. But Joe does not trust Ivan. It always takes a lot of time to explain Joe that he has made a mistake. Fortunately, Joe adores everything related to computers and sincerely believes that computers never make mistakes. Ivan has decided to use this for his own advantage. Ivan asks you to write a program that given sizes of six rectangular pallets tells whether it is possible to make a box out of them.

#### Input

Input file contains several test cases. Each of them consists of six lines. Each line describes one pallet and contains two integer numbers w and h (  $1 \le w$ ,  $h \le 10\,000$ ) -- width and height of the pallet in millimeters respectively.

## **Output**

For each test case, print one output line. Write a single word `POSSIBLE' to the output file if it is possible to make a box using six given pallets for its sides. Write a single word `IMPOSSIBLE' if it is not possible to do so.

# Sample Input

# **Sample Output**

POSSIBLE IMPOSSIBLE

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