



Introduction

A blood test consists of an examination of a blood sample used in health care to determine physiological and biochemical states to assess an individual's general health. Once the sample is analyzed, the laboratory compiles the results in a blood test report. This report details different components in the blood and their levels. To easily read the results, each of the values is written next to a healthy range. Some of the ranges depends on the sex of the individual.

Here's a typical range of results related to complete blood count:

Component	Definition	Normal range
Red blood cells	Cells responsible for carrying oxygen throughout the body	male: 4.3-5.9 million/mm³ female: 3.5-5.5 million/mm³
White blood cells	Immune system cells in the blood	4500-11000/mm³
Platelets	The substances that control the clotting of the blood	150000-400000/mm ³
Hemoglobin	Protein within the red blood cells that carries oxygen to organs and tissues, and carbon dioxide back to the lungs	male: 13.5-17.5 g/dL female: 12.0-16.0 g/dL
Hematocrit	Percentage of blood made of red blood cells	male: 41–53% female: 36–46%

Given the patient's sex and their five component levels can you code a program to check whether any of the parameters are out of range?

Note: The limits of normal range are not included as normal values. For example, 4.3 million/mm3 red blood cells for male IS NOT a normal value.

Input

The input consists of six lines:

The first line defines the sex of the patient: Male or Female.

The second line refers to the red blood cells expressed in a decimal value in million/mm3

The third line indicates the total of white blood cells per mm3

The fourth line reports the number of platelets per mm3

The fifth line is a decimal value defining the hemoglobin in grams/deciliter

The last line is for hematocrit, expressing percentage of blood made of red blood cells.







Output

A readable report stating whether the blood test is normal or if the patient needs to visit the doctor: Red blood cells: NORMAL or VISIT THE DOCTOR White blood cells: NORMAL or VISIT THE DOCTOR

Platelets: NORMAL or VISIT THE DOCTOR Hemoglobin: NORMAL or VISIT THE DOCTOR Hematocrit: NORMAL or VISIT THE DOCTOR

Example 1

Input	Input
Male	Female
4.2	4.6
5900	4400
150001	300000
14.2	14.5
50	51

Output

Red blood cells: VISIT THE DOCTOR

White blood cells: NORMAL

Platelets: NORMAL Hemoglobin: NORMAL Hematocrit: NORMAL

Output

Example 2

Red blood cells: NORMAL

White blood cells: VISIT THE DOCTOR

Platelets: NORMAL Hemoglobin: NORMAL

Hematocrit: VISIT THE DOCTOR