

Challenge

# Defuse the Bomb



A bomb is about to explode in Madan Parque, Almada. The explosion will blow up our office and half the city. Tic-Tac. Time does not stop! And our final hope is you. Only you and your powerful logic skills are up to the task of defusing the bomb and saving us all. Ready to take care of this bomb?

Your Mission

In order to defuse the bomb, you need to create a console application in C# (.NET Core or above) that cuts one colored wire at a time until the bomb is deactivated. For that, the console application has to receive an input, check the color and return 1 of 3 possible results:

- The bomb is still active! Cut another wire.
- The bomb exploded!
- Very good! Bomb disarmed. At last...

#	Input	Resultado
1	White, Red, Green, White	Bomb dismantled
2	White, Orange, Green, White	Bomb exploded
3	White, Red, Green, White, Red	Bomb dismantled
4	White, Orange, Green	Bomb exploded

And the logic rules to analyze the inputs is:

- If you cut a **white** wire, you cannot cut a **white** or **black** wire.
- If you cut a **red** wire, you have to cut a **green** wire
- If you cut a **black** wire, you cannot cut a **white**, **green** or **orange** wire
- If you cut an **orange** wire, you have to cut a **red** or **black** wire
- If you cut a **green** wire, you have to cut an **orange** or **white** wire
- If you cut a **purple** wire, you cannot cut a **purple**, **green**, **orange** or **white** wire

Were the instructions clear? Keep your cold blood and good luck! We're really counting on you. All of us.

But no pressure, okay?