



DEFUSE THE BOMB!



Name Viktor Jablonsky

Location Brno

Status Crazy

Our Head of Software Development, **Viktor Jablonsky**, has gone mad! He is threatening to blow up FNZ if we don't find the best talent for our future projects.

He has activated a bomb and **you are the only one who can defuse it!** Luckily a group of our best developers, analysts and testers have gathered to form an **intelligence team** to capture our rogue leader.

They apprehended him at 0200 and he surrendered his bomb code to us.

Now we have a shot to save the company! But the code is too complex for us and **we need you to crack it!**



This is the algorithm our intelligence team was able to extract from the bomb core. Follow it to decipher the code to defuse the bomb. Time is of the essence. Good luck!

```
public class BombCore
{
    public static bool Defuse(string code)
    {
        List<char> input = code.ToCharArray().ToList();

        if (!input.Any()) return false;

        var iDay = DateTime.ParseExact("28-October-1918", "dd-MMMM-yyyy", null);
        var sIDay = iDay.ToString("yyyyMMdd");

        var a = char.Parse((int.Parse(iDay.ToString("MM"))) - 1).ToString());
        var n_a = int.Parse(a.ToString());
        if (input[0] != a)
        {
            return false;
        }
        input.RemoveAt(0);

        if (!input.Any()) return false;
        if (input[0] != char.Parse(sIDay.Substring(6, 1)))
        {
            return false;
        }
        input.RemoveAt(0);

        if (!input.Any()) return false;
        if (input[0] != char.Parse(Math.Abs(n_a - int.Parse(sIDay)).ToString().Substring(0, 1)))
        {
            return false;
        }
        input.RemoveAt(0);

        if (!input.Any()) return false;
        if (input[0] != char.Parse((n_a / 2).ToString()))
        {
            return false;
        }
        input.RemoveAt(0);

        if (input.Any())
        {
            return false;
        }

        return true;
    }
}
```