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| BACHELOR IN INDUSTRIAL ELECTRONICS AND AUTOMATION ENGINEERING | PROGRAMMING DELIVERABLE 4 | uc3m |
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Deliverable 4:

The program will execute deliverable 3 functionalities N times. N is defined with a DEFINE directive with initial value 5.

In each iteration next information should be stored in a struct type called search defined as:

```
struct search {
    char number[L] // initial number, L indicated with a DEFINE directive
    int iterations; // number iterations
    int happy; // 0 means unhappy, 1 means happy, -1 means unknown
};
```

An array of structs will be used to store the N iterations.

Finally, the program should print the array indicating every variable in the struct.

When analyzing each hexadecimal string next strings indicate the number is unhappy if the process is entering a loop:

00B5, 0092, 0055, 0032, 000D, 00A9, 00B5