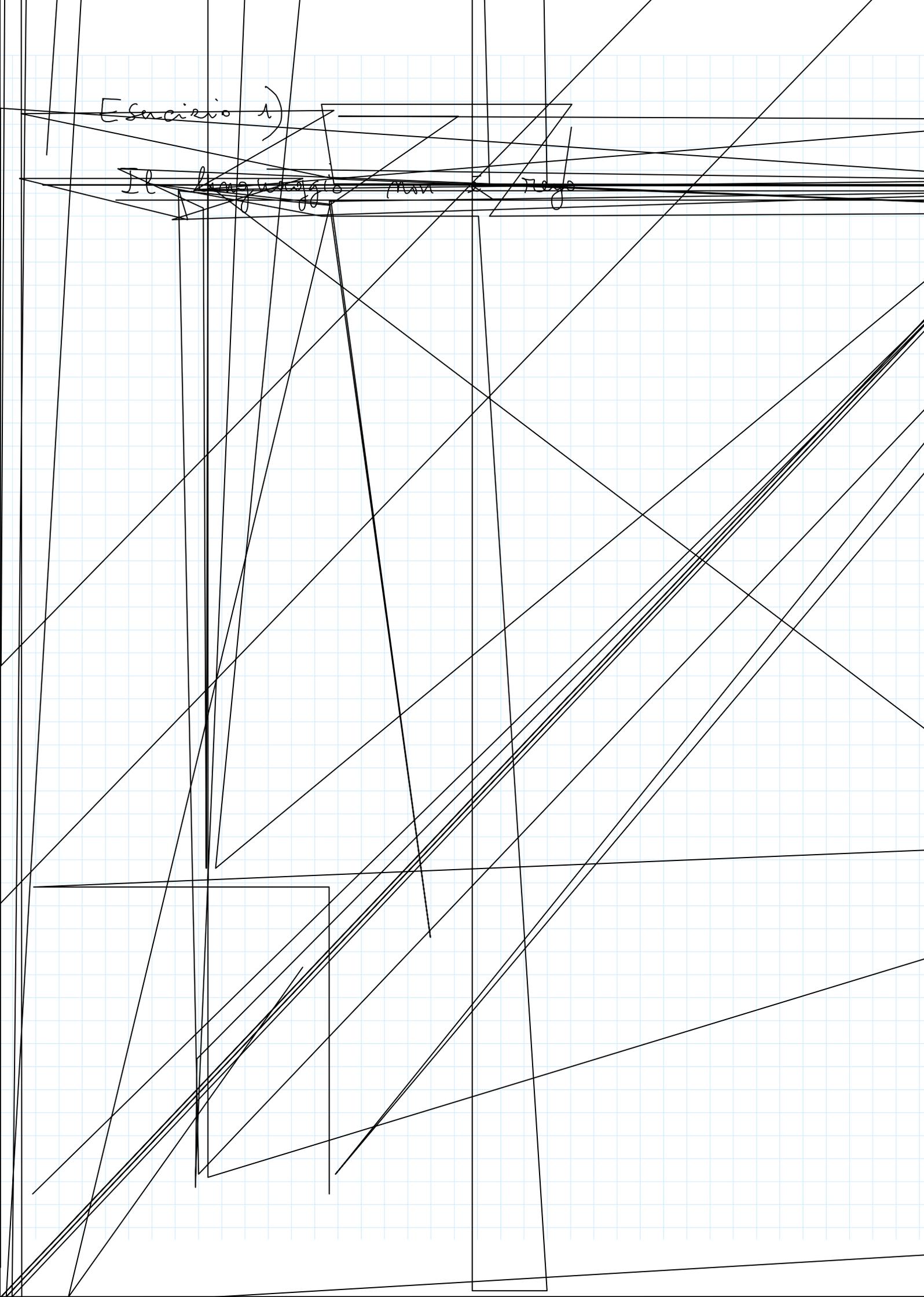Esercizio 1)

Il linguaggio non è regolo

Una grammatica che genera il linguaggio è
la seguente

$$S \rightarrow c\,A\,c$$

$$A \rightarrow abb \mid \dots \mid A'$$

Esercizio 2

```
int conta (int a[], int dim, int el)
{ int i;
  int c=0
  for (i=0; i<dim; i++
```

Esercizio 3)

```
let seg n m lis =
    let f x (b, tm) =
            if not b then (b, tm)
            else if x = m then (b, true)
            else if x = n then if tm then (false, tm)
                                      else (b, tm)
                  else (b, tm)

    in let (a, b) = foldr f (true, false) lis
    in a ;;
```

Esercizio 4)

```
let seg n m lis =
    let rec sega n m lis b =
        match lis with
        [] -> true
        | x :: xs when x = n -> sega n m xs true
        | x :: xs when x = m ->
                if b then false
                        else sega n m xs b
        | x :: xs when x <> m & x <> n
                        -> sega n m xs b

    in  sega n m lis false ;;
```