# **Chapter I**

# Subject

- Create a program that resolves a sudoku.
- Your submission directory must have all files required to compile your program.
- You must submit a *Makefile* which will compile your source files.
- Your executable must be named sudoku
- A valid sudoku has only one possible solution.
- Here's how we'll launch your program:
  - > ./rush-1 line0 line1 line2 line3 line4 line5 line6 line7 line8
- LineN represents a characters string of values ranged between '1' and '9' or '.' (for empty boxes).
- Here's an example of intended input/output for a valid sudoku.

```
>./sudoku "9...7..." "2...9..53" ".6..124.." "84...1.9." "5.....8.." ".31..4..." 
«..37..68." ".9..5.741" "47......" | cat -e

9 1 4 3 7 5 2 6 8$

2 8 7 4 9 6 1 5 3$

3 6 5 8 1 2 4 7 9$

8 4 6 5 2 1 3 9 7$

5 2 9 6 3 7 8 1 4$

7 3 1 9 8 4 5 2 6$

1 5 3 7 4 9 6 8 2$

6 9 8 2 5 3 7 4 1$

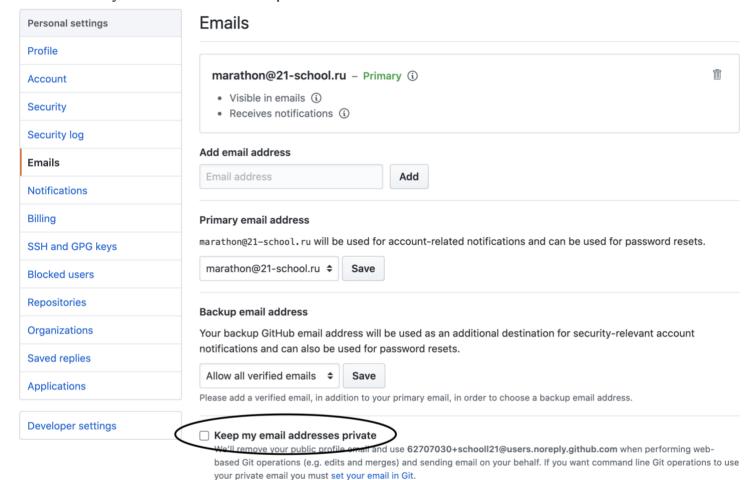
4 7 2 1 6 8 9 3 5$

>
```

• In case of error, display "Error" followed by a line break.

### How to submit your work

- 1. You must register on <a href="https://github.com/">https://github.com/</a> using your email from applicant
- 2. Make sure that your email address is not private



#### 3. Create private repository



#### **Public**

Anyone can see this repository. You choose who can commit.

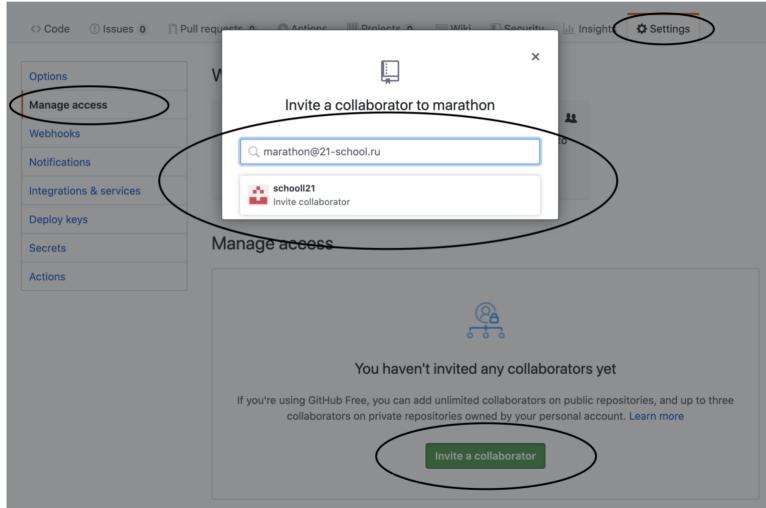




#### **Private**

You choose who can see and commit to this repository.

#### 4. Add marathon@21-school.ru to colloborators



### 5 Set your public email in your profile

