

# Quiz 11

## The Art of Computer Programming

21 January 2026

**Full name:** .....

You have 10 minutes to answer this quiz, directly on this sheet of paper. No electronic devices or material of any kind is allowed. Do not forget to add your name above. Every question amounts to 2 points; the quiz is graded out of 10 points.

### Questions

**Q1.** Circle the correct statement about Git repositories and commits:

- a. Commits are identified by sequential version numbers.
- b. Files removed with `git rm` are permanently lost from history.
- c. A Git repository stores only the latest version of each file.
- d. A commit represents a snapshot of the entire project at a given time.

**Q2.** After modifying a tracked file `report.py`, you run:

```
git add report.py
```

Which statement is correct?

- a. The current contents of `report.py` are staged for the next commit.
- b. All future changes to `report.py` will be staged automatically.
- c. The file is restored to its last committed version.
- d. The changes are immediately saved in the repository history.

**Q3.** Which of the following regular expressions uses a *capturing group*?

- a. `[A-Za-z]+`
- b. `\d+`
- c. `(cat|dog)`
- d. `(?:cat|dog)`

**Q4.** Consider the regular expression `<.*>` applied to the string `<a><b>`.

What is the first match?

- a. `<b>`
- b. Nothing
- c. `<a><b>`
- d. `<a>`

**Q5.** Consider the following code:

```
import re
print(re.search(r"\d+", "abc123def"))
```

What is printed?

- a. A match object
- b. 123
- c. An exception
- d. None