

## THE SOFTWARE ENGINEER

### Glossary:

artifact - артефакт

design - проектировать, разрабатывать дизайн

develop - разрабатывать, создавать

evaluate - оценивать

install - устанавливать

investigate - исследовать, расследовать

programming-in-the-large - крупномасштабное программирование

programming-in-the-small - мелкомасштабное программирование

software - программное обеспечение

test - тестировать, проверять

write – писать

### 1.1. Vocabulary

*Ex. 1. Match the words with their Russian translations.*

1. design	a) устанавливать
2. software	b) оценивать
3. develop	c) тестировать, проверять
4. test	d) артефакт
5. install	e) мелкомасштабное программирование
6. evaluate	f) проектировать, разрабатывать дизайн
7. write	g) разрабатывать, создавать
8. investigate	h) исследовать, расследовать
9. artifact	i) крупномасштабное программирование
10. programming-in-the-large	j) писать
11. programming-in-the-small	k) программное обеспечение

**Ex. 2.** Complete the sentences with the correct topic words from the box.

**design, develop, evaluate, install, investigate, software, test, write**

1. Software engineers often \_\_\_\_\_ new programs.
2. Before releasing a product, they always \_\_\_\_\_ it for bugs.
3. My job is to \_\_\_\_\_ solutions for complex problems.
4. We need to \_\_\_\_\_ the new operating system on all computers.
5. A software engineer can \_\_\_\_\_ code in different programming languages.
6. They also \_\_\_\_\_ the quality of existing applications.
7. The main product of a software engineer is \_\_\_\_\_.
8. It's important to \_\_\_\_\_ user needs carefully.

**Ex. 3.** Choose the correct word to complete each sentence.

1. A software engineer helps to (develop / install) new computer programs.
2. Before you use a program, you need to (test / install) it on your computer.
3. We need to (evaluate / write) the project's progress every week.
4. (Programming-in-the-large / Programming-in-the-small) deals with complex systems and teams.
5. A (design / artifact) can be a document, a model, or a piece of code.
6. My task is to (investigate / evaluate) why the program crashes.

## **1.2. Grammar**

### **Present Simple (Routines and Facts)**

*We use the Present Simple to talk about things that happen regularly, facts, or general truths.*

- **Positive:** I work, You work, We work, They work. He works, She works, It works.

- **Negative:** I don't work, You don't work. He doesn't work, She doesn't work.

- **Questions:** Do you work? Does he work?

*Ex. 1. Complete the sentences with the correct form of the verb in brackets (Present Simple).*

1. A software engineer \_\_\_\_\_ (design) new applications.
2. They often \_\_\_\_\_ (test) software for errors.
3. My colleague \_\_\_\_\_ (not / write) mobile apps. He \_\_\_\_\_ (write) desktop programs.
4. We \_\_\_\_\_ (develop) solutions for big companies.
5. She \_\_\_\_\_ (install) new software every day.
6. The team \_\_\_\_\_ (evaluate) project risks.
7. He \_\_\_\_\_ (not / investigate) network issues.
8. I \_\_\_\_\_ (work) in a software company.

*Ex. 2. Make questions using the words below. Then answer them about a software engineer (use short answers).*

**Example:** you / design / software?

Q: Do you design software?

A: Yes, I do. / No, I don't.

1. a software engineer / write / code?

Q: \_\_\_\_\_

A: \_\_\_\_\_

2. they / test / programs?

Q: \_\_\_\_\_

A: \_\_\_\_\_

3. your manager / install / software?

Q: \_\_\_\_\_

A: \_\_\_\_\_

4. you / evaluate / projects?

Q: \_\_\_\_\_

A: \_\_\_\_\_

### 1.3. Reading

*Ex. 1. Read the text.*

#### **A Day in the Life of a Software Engineer**

My name is Alex and I am a software engineer. I work for a big tech company. My main job is to develop new software and improve existing programs. Every morning, I write code for different features. This is often programming-in-the-small, focusing on specific parts of a program. After writing, I test the software to find any bugs or errors. If there are problems, I investigate them and fix them.

Sometimes, I also design solutions for bigger projects. This involves programming-in-the-large, where I work with a team to plan complex systems. We evaluate the design and discuss ideas. My team also helps to install our software for clients. Every project creates many artifacts, like design documents, code files, and test reports. I like my job because it's always interesting and I learn new things every day.

*Ex. 2. Find English equivalents in the text for the following Russian collocations.*

1. разрабатывать новое программное обеспечение
2. писать код
3. тестировать программное обеспечение
4. исследовать проблемы
5. проектировать решения
6. оценивать дизайн
7. устанавливать программное обеспечение
8. создает много артефактов

**Ex. 3.** Read the text again and choose the correct option (A, B, or C).

1. What is Alex's job?
  - a) He is a teacher.
  - b) He is a software engineer.
  - c) He is a manager.
2. What does Alex do every morning?
  - a) He installs software.
  - b) He writes code.
  - c) He evaluates designs.
3. What is "programming-in-the-small" about?
  - a) Planning complex systems.
  - b) Fixing bugs.
  - c) Focusing on specific parts of a program.
4. What does Alex do after writing code?
  - a) He installs the software.
  - b) He tests the software.
  - c) He designs new solutions.
5. What are examples of "artifacts" mentioned in the text?
  - a) Clients and teams.
  - b) Design documents, code files, and test reports.
  - c) Bugs and errors.

#### **1.4. Communication**

**Ex. 1.** Match the Russian sentences with their English equivalents.

1. Я работаю инженером-программистом.	a) Do you test programs?
2. Что ты делаешь на работе?	b) My team installs software.
3. Я разрабатываю новое программное обеспечение.	c) I develop new software.

4. Ты тестируешь программы?	d) What do you do at work?
5. Моя команда устанавливает программы.	e) He evaluates code quality.
6. Он оценивает качество кода.	f) I work as a software engineer.

**Ex. 2.** Choose the best response (A, B, or C) for each question.

1. What do you do?
  - a) I am a software engineer.
  - b) I like computers.
  - c) I develop new software.
2. Do you design applications?
  - a) Yes, I do.
  - b) Yes, I am.
  - c) Yes, I like.
3. Does your company develop mobile apps?
  - a) No, it don't.
  - b) No, it doesn't.
  - c) No, it isn't.
4. What does he do?
  - a) He test software.
  - b) He tests software.
  - c) He is testing software.