

Part 1

1. According to the video, which of the following is a key reason why natural language user interfaces are often less effective than graphical user interfaces?

- A. Natural language interfaces require less advanced AI technology.
- B. Natural language interfaces provide more detailed and specific feedback.
- C. Natural language interfaces are slower for information processing.
- D. Natural language interfaces are more intuitive for users.

2. The video suggests that the future of car interfaces will likely involve:

- A. Entirely voice-based controls to manage the car's operation.
- B. A combination of verbal commands and manual controls.
- C. Verbal commands to manually control the car's steering and acceleration.
- D. The car being driven autonomously by AI, with high-level verbal commands from the user.

3. Which of the following does the video suggest about the future of software development?

- A. Typing code will become a redundant skill as programming shifts to a more managerial role.
- B. Natural language programming will completely replace traditional coding methods.
- C. Developers will continue to primarily use a mouse and keyboard for coding.
- D. AI-powered tools like GitHub Copilot will have no significant impact on the way software is developed.

4. The video suggests that the shift towards more abstract and high-level programming languages, like Python, is:

- A. A necessary evil that reduces the quality and control of software development.
- B. A temporary trend that will eventually revert to lower-level languages.
- C. Driven by the personal preferences of programmers rather than productivity gains.
- D. An ongoing process of abstraction and automation that increases productivity.

5. The video argues that the use of AI-powered tools like GitHub Copilot:

- A. Is a threat to the traditional role of software developers.
- B. Represents a significant and inevitable change in the software development process.
- C. Will be welcomed by all programmers, regardless of their coding preferences.
- D. Both A and B are correct.

6. According to the video, which of the following is a key advantage of graphical user interfaces over natural language interfaces?

- A. Graphical interfaces are more flexible and customizable.
- B. Graphical interfaces are less dependent on advanced AI technology.
- C. Graphical interfaces provide faster information processing and feedback.
- D. Graphical interfaces are more intuitive for users.

7. The video suggests that the future of human-computer interaction will likely involve:

- A. A continued reliance on traditional mouse and keyboard input methods.
- B. The integration of neural implants and other human-machine interfaces.
- C. A complete shift away from graphical user interfaces towards natural language interfaces.
- D. A combination of graphical, natural language, and other emerging interface technologies.

Part 2

1. Which of the following is considered the first true AI-based pair programming tool?

- A. Machine learning-based autocomplete
- B. Logic-based autocomplete
- C. GitHub Copilot
- D. Graphical user interfaces

2. What does the speaker suggest about the future of user interfaces?

- A. Natural language interfaces will completely replace graphical interfaces.
- B. Graphical interfaces will remain the primary mode of interaction.
- C. User interfaces will become more intuitive, but not necessarily natural language-based.
- D. User interfaces will become more abstract and automated.

3. According to the speaker, what is the relationship between abstraction and productivity in software engineering?

- A. Abstraction hinders productivity and should be avoided.
- B. Abstraction is necessary for productivity but should be limited.
- C. Abstraction is a key driver of productivity and advancement.
- D. Abstraction is not relevant to productivity in software engineering.

4. What is the speaker's view on the argument against tools like GitHub Copilot?

- A. The speaker agrees with the argument and believes such tools should be avoided.
- B. The speaker disagrees with the argument and believes such tools will become the norm.
- C. The speaker is undecided on the argument and sees both sides.
- D. The speaker thinks the argument is not valid and does not understand the opposition.

5. What does the speaker suggest about the rapid advancements in AI technology?

- A. The speaker is confident about the future impacts of these advancements.
- B. The speaker believes the advancements are happening too quickly to fully understand.
- C. The speaker thinks the advancements are overrated and not as significant as they seem.
- D. The speaker is concerned about the potential negative impacts of these advancements.

6. Which of the following is the speaker's view on the future of graphical and natural language-based user interfaces?

- A. Graphical user interfaces will completely replace natural language-based interfaces.
- B. Natural language-based interfaces will completely replace graphical user interfaces.
- C. Graphical output will remain superior to natural language-based output.
- D. A combination of graphical and natural language-based interfaces will be the future.

7. What is the significance of GitHub Copilot, according to the speaker?

- A. It is the first AI-based autocomplete tool.
- B. It is the first to interact with a user interface like a text editor.
- C. It is the first to use natural language processing.
- D. It is the first true large language model-based AI pair programmer.