Programming languages

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The Fourth Generation of programming languages

► The term fourth-generation programming languages (4GL) is better represented as fourth-generation development environments. They belong to the time period from the 1970s to the early 1990s.

► Languages of this generation are designed for the implementation of large projects, increase their reliability and speed of creation, are focused on specialized applications, and use not universal, but object-oriented languages operating with specific concepts of a narrow subject area. Powerful operators are embedded in these languages, allowing one line to describe such functionality, which would require thousands of lines of source code to implement in the languages of younger generations.

The fifth generation of programming languages

► The birth of the fifth generation languages occurred in the mid-90s. These also include systems for the automatic creation of application programs using visual development tools, without programming knowledge. The main idea was the possibility of automatic generation of the resulting text in universal programming languages (which needs to be compiled). Instructions are entered into the computer in the most visual form using methods that are most convenient for a person who is not familiar with programming.

The most important languages of our time

► In recent years, Java, C, C++, Python, C#, which are among the top programming languages, are considered the most popular and in demand. They form the basis of modern programs and are used when writing any major project. More than 70% of programmers work with these languages. It is predicted that in the next 10 years they will still be in demand, as they are today.

Thanks for your attention

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