ALGORITHMS AND THEIR DELIVERY METHODS

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ABSTRACT

An algorithm is a sequence of actions required to solve a given problem.
The word and the concept of algorithm are inextricably linked with the name of Muhammad al-Khorazmi, who lived and created in the 9th century. The word "algorithm" came from the distortion of Al-Khorazmi's name by European scientists. Al-Khwarizmi was the first to establish the principles of the decimal number system and the rules for performing the four actions in it.

Keywords: Algorithm, Discretization, Accuracy, Efficiency, Abstract, Modeling, Physico-chemical models, Biological models, Economic models

INTRODUCTION

One type of studied object has its own characteristics - description.
Each separately obtained object is distinguished from another by the descriptive value corresponding to this description.Modeling is a process of researching objects of knowledge (physical phenomena and processes) using their models, making and studying models of existing objects and phenomena.
Model (lat. modulus - measure, standard) is an image or copy of a real object or a system of objects, which must meet certain requirements of the field of research. There are many examples of object models in life. For example, a model of the earth is a globe or a map.Learning models are used in the teaching processThese include demonstration manuals, simulators, training programs.
Experimental models are used for object research and forecasting (prediction) of its future characteristics.For example, a model of an airplane wing is "blown" in an aerodynamic tube to study its resistance to air currents.Scientific and technical models are created to study processes and phenomena.

Representation of the algorithm in words, formulas, tables, graphs

Expression of the algorithm through words. In this method, every instruction given to the performer is given in the form of commands through sentences and words.The method of giving the algorithm with formulas is used in the study of

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formulas in specific sciences such as mathematics, physics, and chemistry. This method is sometimes called analytical expression. In the graphic representation of algorithms, algorithms are described using special geometric figures, and this graphic representation is called a block diagram. Presentation of the algorithm in tabular form. We often use this representation of the algorithm. For example, four-digit mathematical tables used in school or various lottery tables. We also use table views of algorithm values when drawing graphs of functions. Algorithms for using such tables are easy to learn because they are simple.The main purpose of the methods of describing the algorithms seen above is to determine the most convenient case of the sequence of actions necessary to solve the given problem, and thus to make it easier for a person to write a program. In fact, a program is another form of an algorithm, which is designed to make communication between a person and a computer more convenient. to specify some object in a given collection One type of studied object has its own characteristics - description.Each separately obtained object is distinguished from another by the descriptive value corresponding to this description.Modeling is a process of researching objects of knowledge (physical phenomena and processes) using their models, making and studying models of existing objects and phenomena.

Model (lat. modulus - measure, standard) is an image or copy of a real object or a system of objects, which must meet certain requirements of the field of research. There are many examples of object models in life. For example, a model of the earth is a globe or a map. Learning models are used in the teaching process.These include demonstration manuals, simulators, training programs.Experimental models are used for object research and forecasting (prediction) of its future characteristicsSuch models can include a device for receiving lightning discharges, a model of the movement of the planets of the Solar System, and models of an internal combustion engine.With the help of such models, it is possible to resolve conflict situations, provide psychological support, and predict the behavior of an object in various situations.Imitation models not only reflect reality at different levels of accuracy, but also imitate it.

CONCLUSIONS

As we noted above, in order to solve a given problem in EHM, it is first necessary to create its mathematical model, then its algorithm and program. Algorithm block is important in this trio Therefore, the instructions must be given clearly

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and executed only in the order specified in the algorithm.

Popularity. Each algorithm should be suitable for all types of problems by content. That is, regardless of the initial data of the problem, the algorithm should be able to solve any such problem. For example, the algorithm for finding the common denominator of two common fractions will determine their common denominator even if you change the fractions differently. Or the algorithm for finding the face of a triangle will calculate the face of the triangle regardless of what it is. The modeling method is also used in physics, astronomy, biology, economics to determine only certain properties and relations of the object.It can be divided into three groups depending on the means of selecting models. These are abstract, physical and biological groups.Among abstract models. mathematical, mathematical-logical and similar models are included. Physical models include miniature models, various tools and devices, simulators, etc

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