**PROGRAMMING LANGUANGE**

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**Instruction**:

Research for the following computer language guru:

* *Brian Kernighan* is a known computer scientist for his contribution to the development of the C Programming Language and for co-authoring the book “The C Programming Language” with Dennis Ritchie. Brian also wrote many programs for Unix, including ditroff. Brian Kernighan is also co-author of AWK which is a domain-specific language and AMPL. Brian was the software editor of an American major educational publisher Prentice Hall International.

Some Achievements:

* Written first documented “Hello, world!” program.
* Developed ditroff which allowed troff to be used with any device.
* Developed AMPL programming language which is an algebraic modeling language.
* Developed AWK programming language which is a domain specific language.
* *Dennis Ritchie* is a known American computer scientist for creating C programming language early 1970s, which is widely used in software development, operating system, and embedded systems. and co-developing the Unix operating system. He passed away in 2011, but his contributions to computer science continue to shape the technology industry to this day.

Some Achievements:

* the National Medal of Technology in 1999
* *Kristen Nygaard* is a known Norwegian computer scientist who is widely recognized as one of the pioneers of OOP. Nygaard co-developed the programming language Simula with Ole-Johan Dahl. The tenets of OOP, including object, classes, and inheritance, were first introduced in the computer language Simula. Several significant computer simulations, especially in the oil and gas sector, were later developed using Simula. Nygaard was also active in social and political issues. He was involved in the Norwegian peace movement and was a member of the Norwegian Socialist Left Party.
* *Alex Stepanov* is a known computer scientist and mathematician for his work on the development of the STL (Standard Template Library), a collection of reusable algorithms and data structures in the C++ programming language. The library provides a set of generic algorithms and data structures that can be used to address a variety of programming issues, making it easier and faster for developers to create complex software applications. Stepanov has also contributed to the D programming language and has authored several books on programming and mathematics. He is a member of the Association for Computing Machinery (ACM)

Stepanov was born in 1950 in Moscow, Russia

Research for the following Programming Language:

* *Lisp* is a computer programming language developed in 1960 by John McCarthy at the Massachusetts Institute of Technology. Lisp is a function applied to data, rather than being a sequence of procedural steps as in FORTRAN and ALGOL. LISP became a common language for artificial intelligence (AI) programming.
* *Prolog* is a computer programming language developed in 1970s by a group of researchers at the University of Marseille in France. Prolog is a declarative language, which means that programs are written in terms of logical statements rather than procedural instructions. Prolog is used to support for backtracking, which allows the interpreter to explore different paths through a program to find a solution to a problem.
* *Fortran* is a computer programming language developed in the 1950s by John Backus. The name "Fortran" is an acronym for "FORmula TRANslation.". Fortran is known for its efficient handling of mathematical and scientific computations, and it continues to be widely used in fields such as computational physics, chemistry, and engineering. Fortran is used for numerical arrays, which allows programmers to easily manipulate large sets of data. Fortran also supports a variety of data types and structures, including complex numbers, character strings, and user-defined types.
* *Ada* is a high-level programming language developed in 1980s by the United States Department of Defense (DoD). Ada was named after Ada Lovelace, a mathematician who is credited with writing the world's first computer program in the mid-1800s. The language was designed to create a programming language that could be used for all DoD projects, and it was intended to replace the various programming languages that were in use at the time.
* *RPG* is also a high-level programming language developed in 1960s by IBM. RPG was originally designed for use on IBM's midrange systems, including the System/3, System/38, and AS/400. Business systems like accounting, inventory control, and customer relationship management are typically developed using RPG. The language is ideally suited for applications that need the processing of massive volumes of data since it is well renowned for its robust support for record-oriented input/output.
* *PL/S* is a high-level programming language developed in 1960s by IBM. It was designed to used for wide range of system programming task, such as operating system development, device development, and database management. The language includes support for system-level programming tasks, such as memory management, interrupt handling, and device driver development.
* *Algol* is also a high-level programming language developed in 1950s by an international committee of computer scientists. Algol was designed to be a general-purpose language suitable for scientific and engineering applications. It has a ability to express complex algorithms in a concise and readable form. The language was widely used in scientific and engineering applications, particularly in Europe, and it was influential in the development of other programming languages, such as Pascal and C.
* *Pascal* is a high-level programming language developed in 1960s by Niklaus Wirth. Pascal was used for the development of a wide range of applications, including business applications, scientific applications, and educational software. The language also included a variety of built-in functions and procedures for manipulating data, such as mathematical functions and input/output operations.