

Name _____

Grace Hopper: Trailblazer in Computer Science

Short Answer Key

1. Grace Hopper's development of the A-0 system was significant because it was the first compiler, translating human-readable code into machine code. This innovation revolutionized programming by allowing programmers to write code in a high-level language, making it more efficient and portable across different computer systems.
2. Grace Hopper's work in the development of COBOL impacted the world of programming by creating one of the first widely used high-level programming languages. COBOL contributed to the standardization of computer programming, making it more accessible to a broader range of users and facilitating software development.
3. Grace Hopper advocated for the use of English-like programming languages because she believed it would make computers more accessible to a wider audience, including those without a technical background. This was important because it allowed more people to interact with and program computers, democratizing the field of computer science.
4. Grace Hopper contributed to the advancement of women in STEM fields through her own pioneering career and her advocacy for diversity. She served as a mentor to many women in computing and encouraged them to pursue careers in technology, breaking down barriers and inspiring future generations.
5. One lasting legacy of Grace Hopper's work in computer science is her role in the development of programming languages and the concept of compilers. Her innovations laid the foundation for modern software development, making it possible for programmers to write code in high-level languages and revolutionizing the way software is created.

