

## **Alan Turing's dedication to code-breaking and the direction of today's information security**

**2023320060 Jeongmin LEE**

The Imitation Game is a movie about Alan Turing, a British mathematician who worked to decipher Nazi Germany's Enigma code during World War II. The uniqueness of the German code was that its rules changed every midnight, presenting a significant challenge for Turing and his code-breaking team. It was impossible for humans to compare all possible cases within 24 hours. Leading the Enigma decryption project, Alan Turing embarked on the creation of a machine to aid in code-breaking. Despite conflicts with team members and the pressure of limited time pushing him into a corner, Turing and his team eventually developed a machine, "Christopher," capable of deciphering the complex Enigma code, playing a crucial role in the Allies' victory in the war. Watching The Imitation Game made me realize the immense effort Alan Turing put in and how his dedication has led to significant advancements in the field of information security today.

However, after feeling inspired by Alan Turing's dedication to code-breaking, I also felt a bit of skepticism. Nowadays, everyone has access to personal computers, laptops, and smartphones, indicating rapid informatization. Unlike in the past, much information is exchanged on the network, which can be considered a virtual space. Yet, most users overlook the importance of security. For example, users sign up for services without checking how their information is used or how it is protected. In today's society, despite the paramount importance of security, many people remain ignorant and indifferent to information security, which is a major reason for my skepticism.

I believe the future of information security should develop as follows:

1. Information security is a field that undergoes constant transformation and development, leading me to think that perfect security and protection cannot exist. Therefore, there must always be a contingency plan for both maintaining the best state and for situations when the best state is compromised.
2. It is important to raise public awareness about the importance of information security and to increase interest in it. Even as I write this essay, it's impossible to estimate how much information is being stolen and how much is being protected by today's security systems. The public needs to deeply consider the information entrusted to others regarding themselves.

The movie "The Imitation Game" confirmed my goal to become a researcher contributing to today's less-known issues in information security, much like Alan Turing, who is called the father of modern computer science. It highlighted Turing's anguish and achievements in his code-breaking efforts, as well as the unjust treatment he received from society at the time. If I were in Alan Turing's position, I too would persevere until reaching the final goal.