

## **University of the Armed Forces E.S.P.E.**

**Name: Kevin Chuquimarca**

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**Topic: Summary of the movie the imitation game.**

### **The imitation game**

The imitation game consists of a game based on questions and answers to determine if you think as a machine or as a person, invented by Alan Turing who was a well-known mathematician and not only that, he was also a great riddle decoder he invented. In his childhood he was an antisocial person who suffered violence from his fellow students, although he had an only friend Christopher Morcom with whom he had a relationship and because of that he was convicted and put in rehabilitation after being accused of indecency.

Alan Turing is part of a group in charge of solving the enigma code, this code was used by the Germans to coordinate their attacks during the Second World War, considered as an indecipherable code since it changes its structure every 18 hours. The key to ending the war was on Turing's idea that it consists of building a programmable and reprogrammable machine, capable of processing large amounts of information in a short time, so I need the help of an engineer, cryptanalysts, mathematicians and statistics to be able to build the machine and end the war.

In this project several areas were involved that are fundamental to invent things like mathematics, physics, engineering, each one contributed and played a very important role, mathematics helps to decipher the enigma code, but it was too much information that I analyzed in a short time Therefore, they needed engineering and physical knowledge to build a machine that manages to do what a person does in a very limited and limited time. In addition, the importance of teamwork and the good relationship that must be between coworkers was noted, without these components no project can come to fruition and in this case they would have had no problems ending this war.

At first Turing did not consider the importance of teamwork, so the project was delayed, in addition to having a very conceited and unsocial attitude. When he reconsidered that he needed the help of his colleagues he managed to adapt to his work environment and as a result they managed to build what was considered the first computer, named after Christopher in honor of his best friend, who passed away some time ago. The machine was already serving its purpose, but there was too much information to process before ending the 18 hour time frame for the code to change again. So they needed one last key piece to solve the puzzle. This idea was to discard information that started with the same keywords, greatly reducing the information that the machine had to process, thanks to this they managed to decipher the code, although a new problem arose.

The team had to keep everything they figured out a secret, and the only solution to winning the war was with statistics, sacrificing many people in the process, but it was the only way to end the war by acting cautiously.

After the war ended, Turing was sentenced to prison or to undergo treatment to cure his homosexuality. By choosing the second option, he made the decision to commit suicide at age 41, but his work was recognized, such as Turing's machines or the First computer, and Queen

Elizabeth I consider forgiveness and honor her achievements, this secret is a real fact that happened during the Second World War and was hidden from the world for more than 50 years.