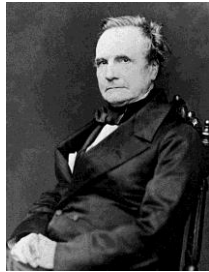


Famous Firsts in Computation MSE 2400 Evolution & Learning

First Computer Engineer – Charles Babbage
First Computer Programmer – Ada Lovelace
First Computer Scientist – Alan Turing

Charles Babbage

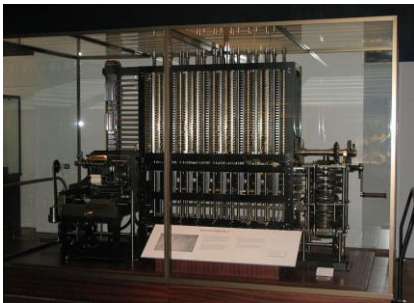
- 1791-1871
- English mathematician, philosopher, inventor and mechanical engineer
- “Father of the Computer”
- Invented first mechanical computer



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Babbage's Difference Engine



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Ada Lovelace

- 1815 – 1852
- English mathematician and writer
- First computer programmer, worked on Difference Engine
- Daughter of poet Lord Byron



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Alan Turing

- 1912 – 1954
- British mathematician, logician, cryptanalyst, and computer scientist
- “Father of Computer Science and Artificial Intelligence”
- Cracked the Enigma



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Enigma machine

- Electro-mechanical rotor cipher machine
- Encrypt & decrypt secret messages
- Select a combination of letters as a code
- Type each letter of msg
- Write down each coded letter



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6
