

ADA LOVELACE

Born in London in 1815,
Ada Lovelace was raised by her mother.

In 1828, she produced the design for a flying machine,
by this time, she **had** already **received** an education in music, logic and mathematics.

In 1833 Ada met Charles Babbage.

In 1834 Babbage **had made** plans for a new calculating machine: Analytical Engine.
And, Luigi Federico Menabrea, published an article about it, in French.
Ada - who **had** in the meantime **married** William King
worked on the translation of this article for nine months.

Ada **had seen** the potential and the future of the machine.
In her notes, Lovelace **had emphasized** the similitudes
between the Analytical Engine and a Jacquard loom.
For her, algebraic patterns **had been woven** by the Analytical Engine,
like flowers and leaves by a Jacquard loom.

The Jacquard loom **had been invented** to automate the weaving of complex patterns.
A series of reusable punch cards **had been fed** into the loom to determine the design.

Lovelace **had made** two important contributions in her translation notes:
she **had described** a way that the machine could repeat instructions, called looping.
And, she **had written** the first ever computer program;
an algorithm to calculate a Bernoulli number using the Analytical Engine

Less than a decade after her notes **had been published**,
Lovelace died from uterine cancer in 1852 at the age of 36.

ANSWER THE FOLLOWING QUESTIONS

1. Who published an article about the Analytical Engine?

2. Who translated the article about the Analytical Engine?

3. What had Lovelace emphasized in her notes?

4. What had the Analytical Engine woven?

5. What had the Jacquard loom been invented for?

6. What is looping?

7. Who had written the first computer program?

8. What happened a decade after Lovelace notes had been published?

VOCABULARY

Repeat the following words

Age	Looping
Algebraic patterns	Machine
Algorithm	Married
Analytical engine	Mathematics
Article	Meantime
Automate	Notes
Bernoulli number	Potential
Calculate	Published
Calculating machine	Punch cards
Complex patterns	Raised
Computer program	Received
Decade	Reusable
Determine	Series
Emphasized	Similitudes
Flying machine	Translation
First	Uterine cancer
Instructions	Weaving
Jacquard loom	Worked
Logic	Woven