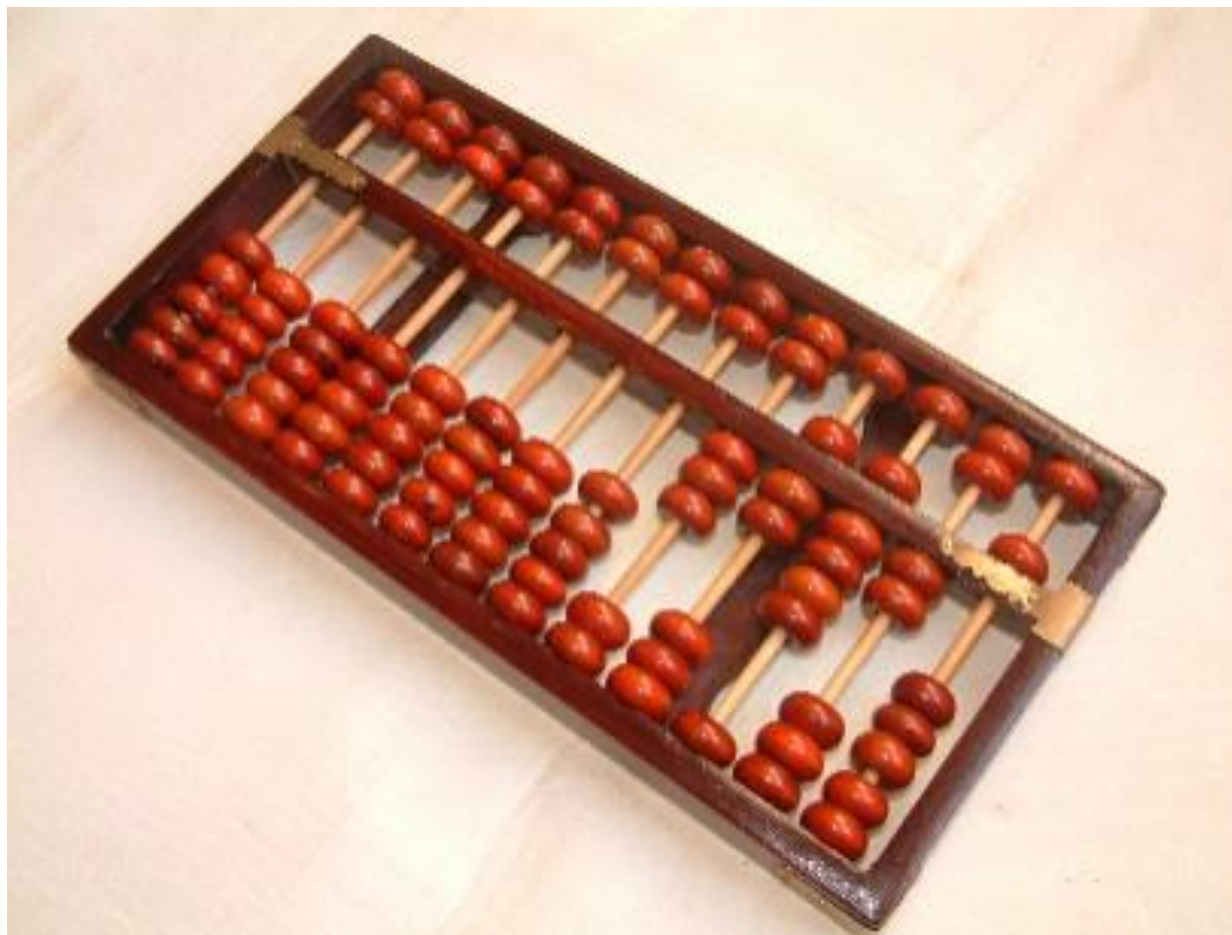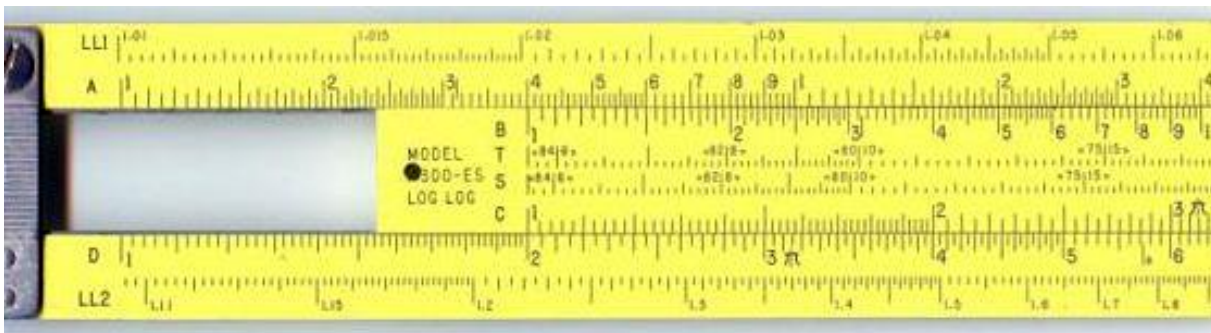# Early Computing Machines

Antikythera Mechanism
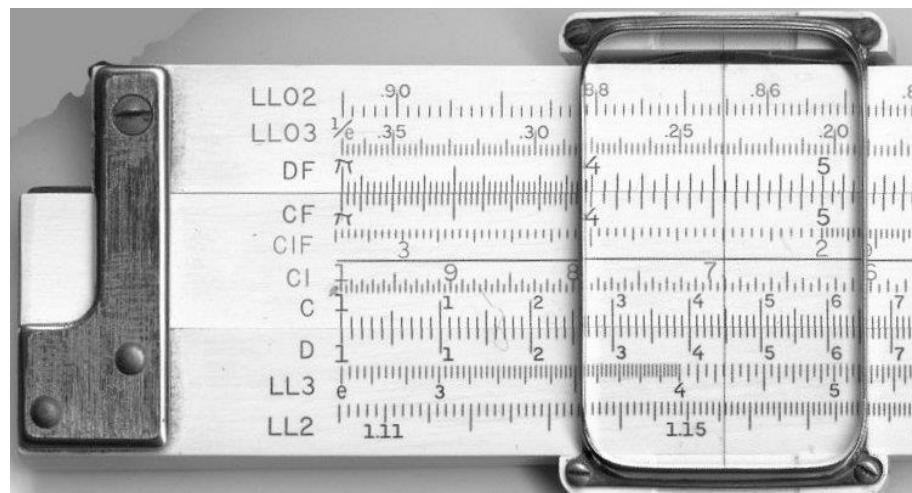
Source

Abacus

Clip from Apollo 13
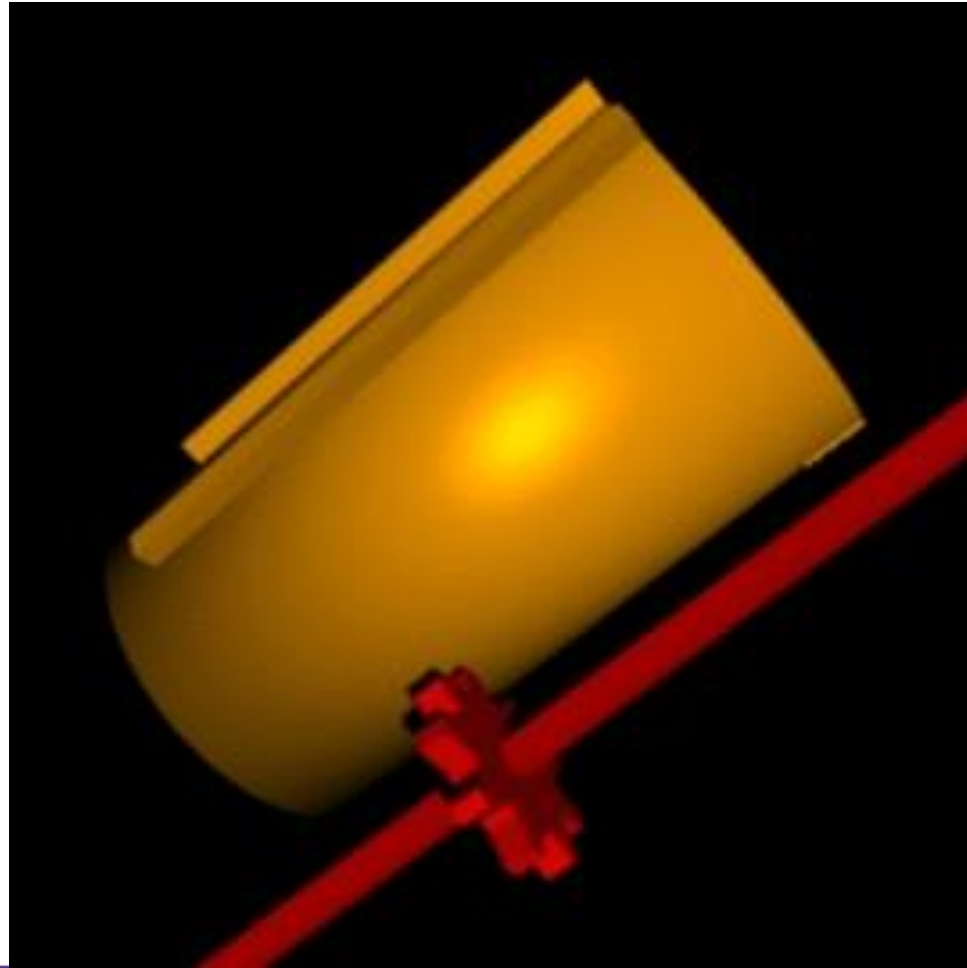
What is a computer?
What should a computer do?

What should a computer do?

- **Compute Values**
- Accept Variable Input
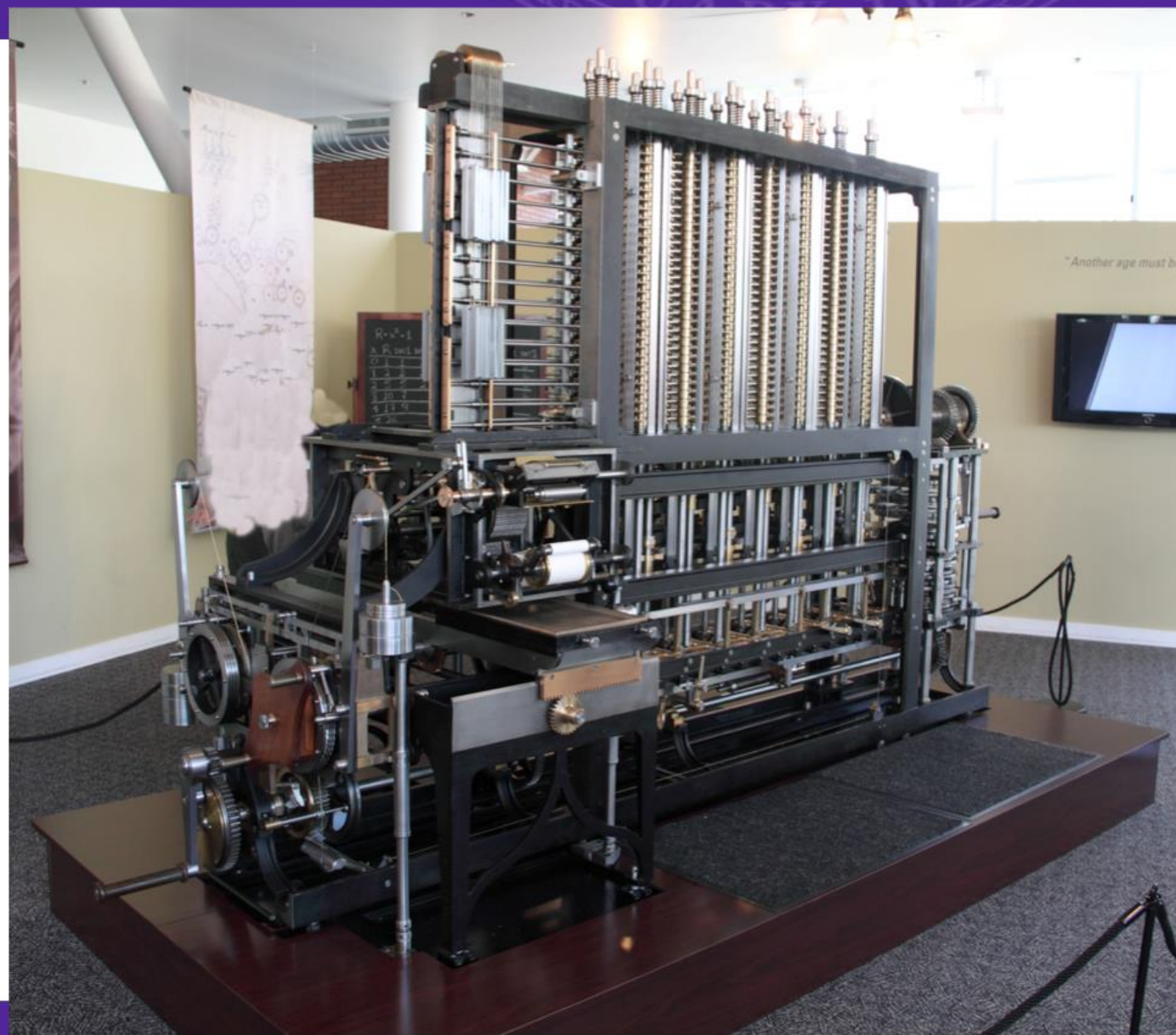- Store Data
- Output Results
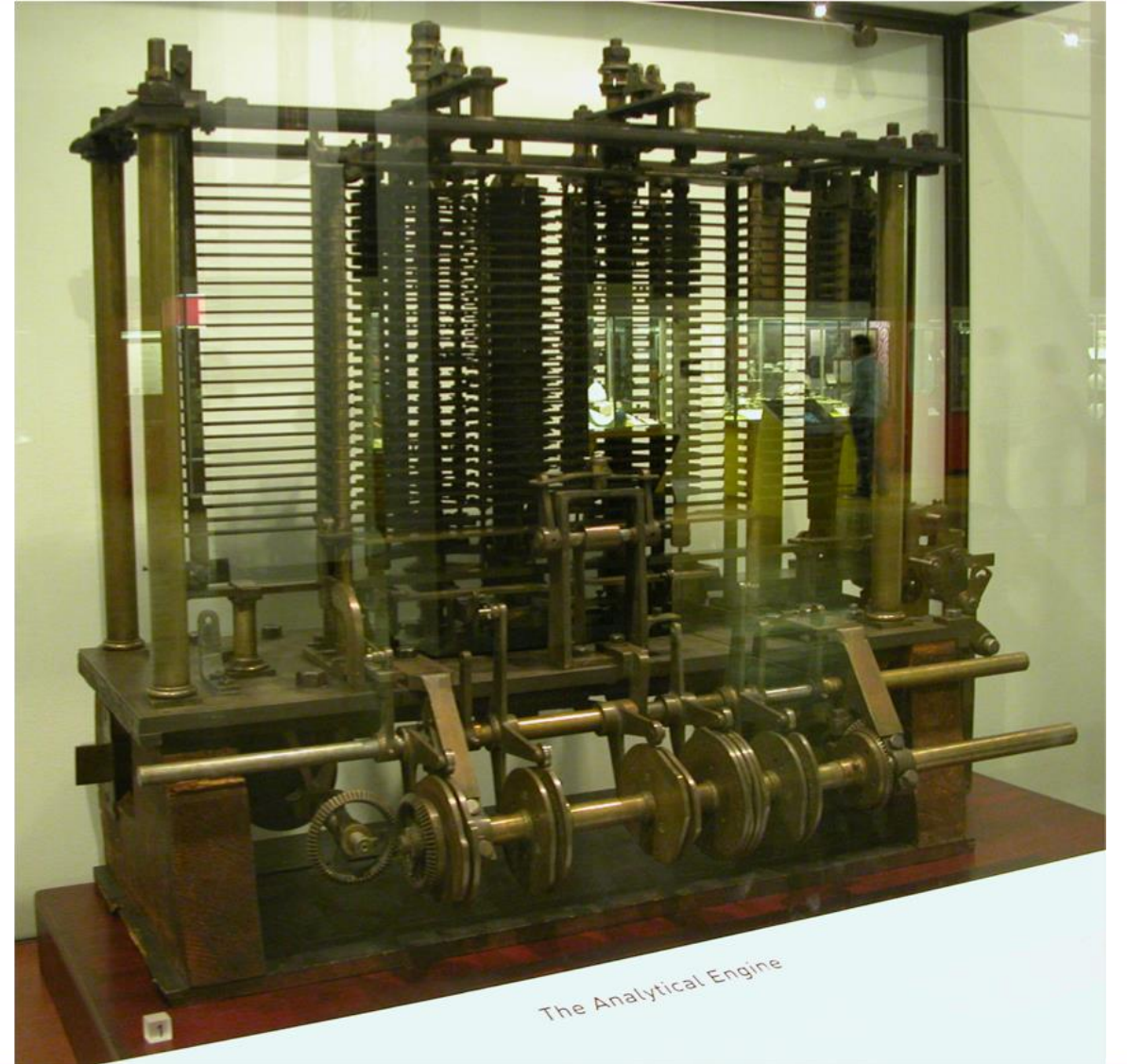
Pascaline

Leibniz Wheel

Difference Engine

What should a computer do?

- Compute Values
- **Accept Variable Input**
- Store Data
- Output Results

Jacquard Loom

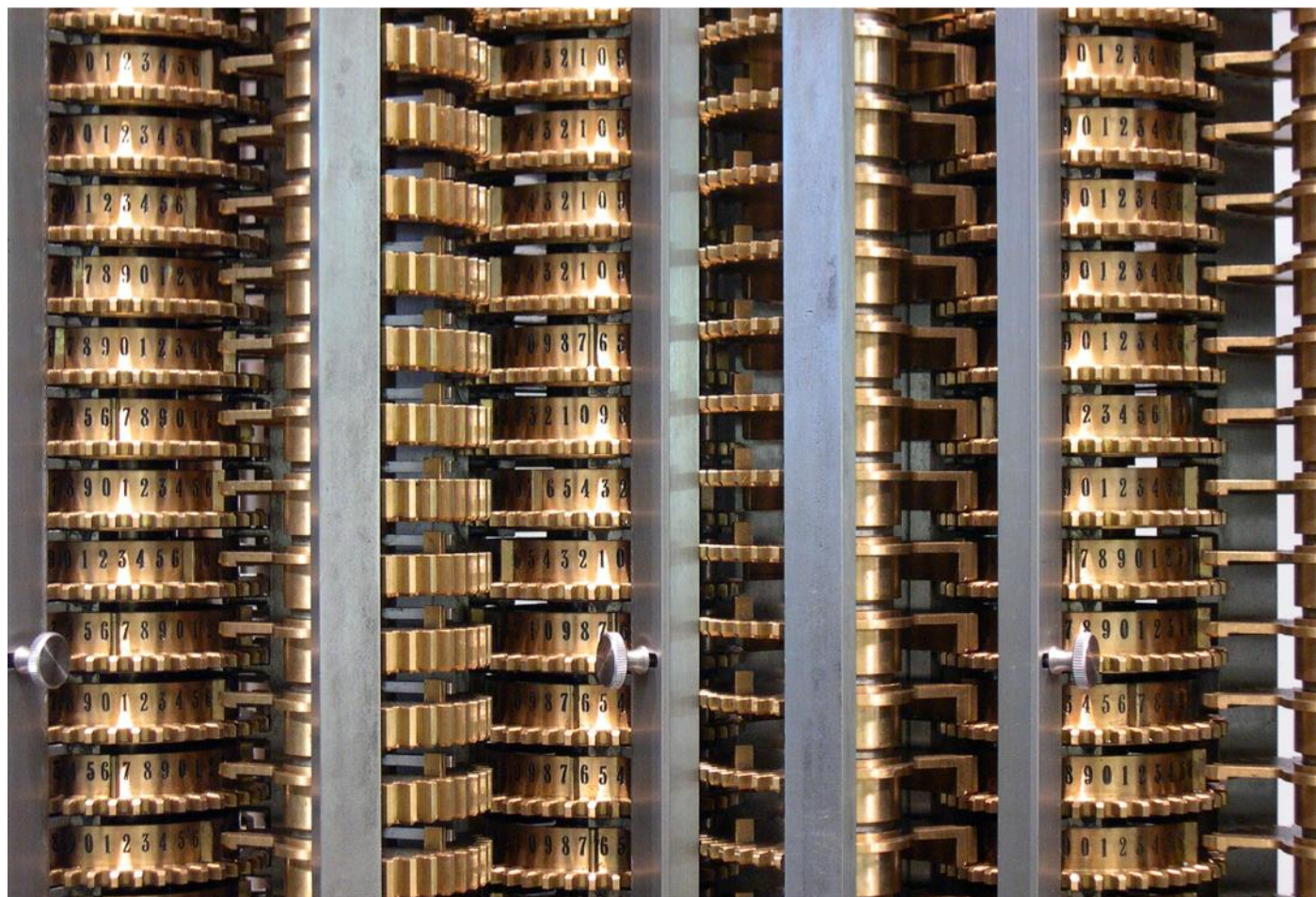# Analytical Engine

The Analytical Engine

Input Cards and the Mill

What should a computer do?

- Compute Values
- Accept Variable Input
- **Store Data**
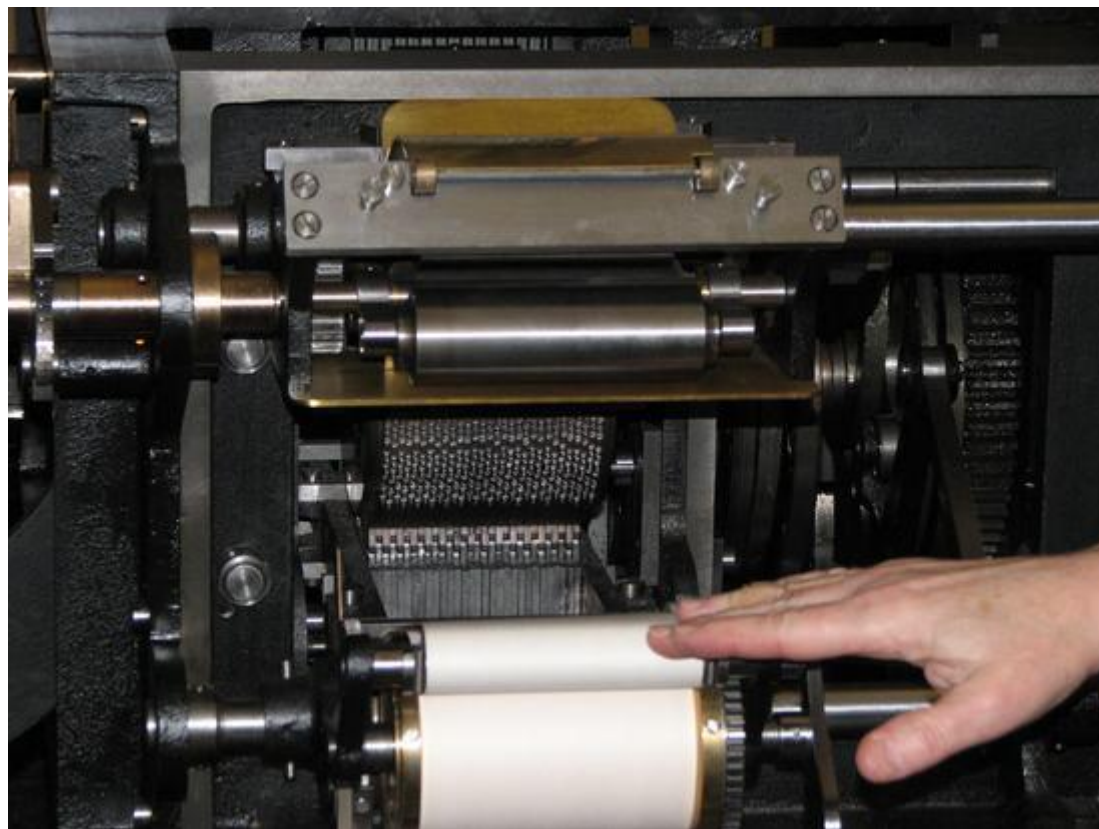- Output Results

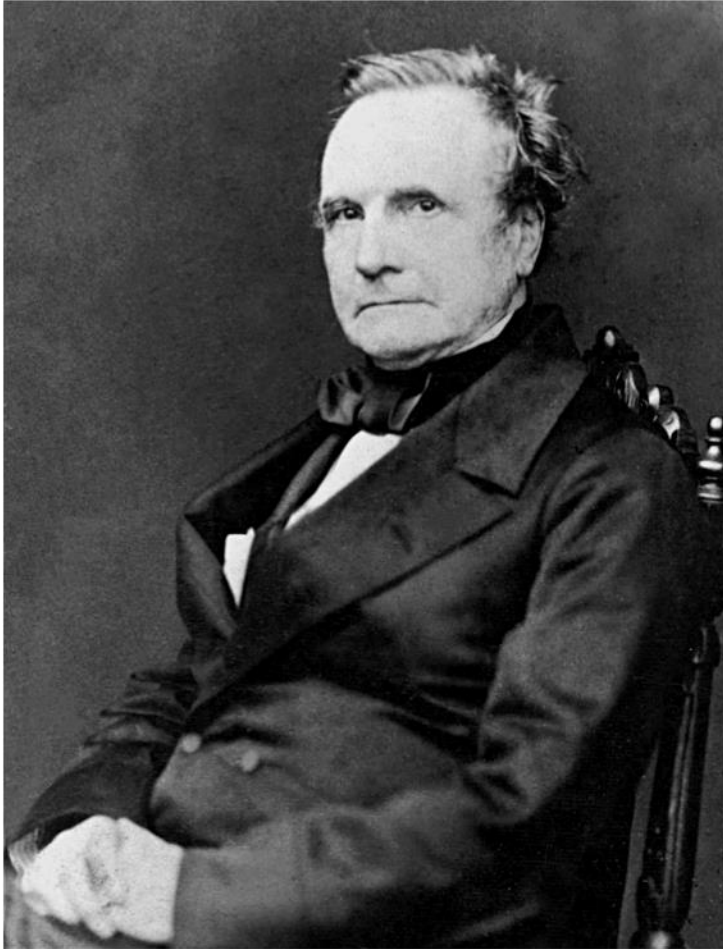# The Store

What should a computer do?

- Compute Values
- Accept Variable Input
- Store Data
- **Output Results**

The Printer

Father of the Modern Computer

PASSAGES

FROM

THE LIFE OF A PHILOSOPHER.

BY

CHARLES BABBAGE, ESQ., M.A.,

F.R.S., F.R.S.E., F.R.A.S., F. STAT. S., HON. M.R.I.A., M.C.P.S.,

COMMANDER OF THE ITALIAN ORDER OF ST. MAURICE AND ST. LAZARUS,

INST. IMP. (ACAD. MORAL.) PARIS CORR., ACAD. AMER. ART. ET SC. BOSTON, REG. OECON. BORUSS., PHTS. HIST. NAT. GENEV., ACAD. REG. MONAC., HAFN., MASSIL., ET DIVION., SOCIUS. ACAD. IMP. ET REG. PETROP., NEAP., BRUX., PATAV., GEORG. FLOREN, LYNCEI ROM., MUT., PHILOMATH. PARIS, SOC. CORR., ETC.

"I'm a philosopher. Confound them all—
Birds, beasts, and men; but no, not womankind."—Don Juan.

" I now gave my mind to philosophy: the great object of my ambition was to make out a complete system of the universe, including and comprehending the origin, causes, consequences, and termination of all things. Instead of countenance, encouragement, and applause, which I should have received from every one who has the true dignity of an oyster at heart, I was exposed to calumny and misrepresentation. While engaged in my great work on the universe, some even went so far as to accuse me of infidelity;—such is the malignity of oysters."—" Autobiography of an Oyster" deciphered by the aid of photography in the shell of a philosopher of that race,—recently scolloped.