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John von Neumann
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The von Neumann Architecture
In 1945 Neumann described the first computer in which the program and data were stored in the same address space, based on Eckert and Mauchly's work on the EDVAC.

Random Numbers
Von Neumann co-developed the Monte Carlo method and pioneered the generation of pseudorandom numbers.

Merge Sort
Knuth credits von Neumann with developing the merge sort algorithm in 1945.

For things that we have to learn to do, we learn by doing them.   Aristotle