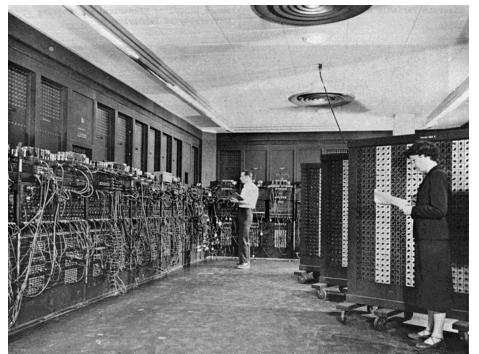
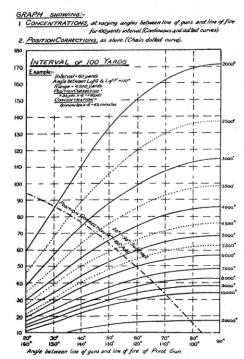


Women workers ('computers') in a calculation "factory," 1930s. Courtesy of the Library of Congress.





Calculating a trajectory could take up to 40 hours using a desk-top calculator. The same problem took 30 minutes or so on the Moore School's differential analyzer. But the School had only one such machine, and since each firing table involved hundreds of trajectories it might still take the better part of a month to complete just one table. [Winegrad & Akera 1996]



Source: Ad Meskens, WikiMedia Commons



Control Flow J5





Control Flow

Control flow statements allow the execution of the program to deviate from a strictly sequential execution of statements ('selection').

Imperative programming: sequence, *selection*, iteration.



if-then & if-then-else statements

- The if-then construct conditionally executes a block of code.
- The if-then-else construct conditionally executes one of two blocks of code



The switch statement

- The switch statement selects one path among many.
- Execution jumps to the first matching case.
- Execution *continues* to the end of the switch *unless* a break statement is issued.