

Building Blocks To Space



Rome wasn't built in a day, and neither was America's space program. It took decades of study and exploration to reach the point where astronauts and cosmonauts could live together in space for months at a time as they do now on the International Space Station (ISS). The building blocks to get to this point came in the form of four space campaigns: Mercury, Gemini, Apollo, and Space Shuttle. The whole "space race" concept was underscored in a 1961 speech where president John F. Kennedy declared America's resolve to land a human on the Moon by 1970.

The **Mercury project** was a series of six manned flights that extended beyond Earth's atmosphere, taking place from 1961 through 1963. Though *the goal was to orbit the Earth*, the first two flights merely went to **suborbital** altitudes beyond our atmosphere. While Mercury astronauts learned first-hand of many space travel challenges, the issues were limited by the reduced mobility the astronauts endured. The astronauts were strapped on their backs for the entire flight, which ranged from less than a half hour to just over a full day.

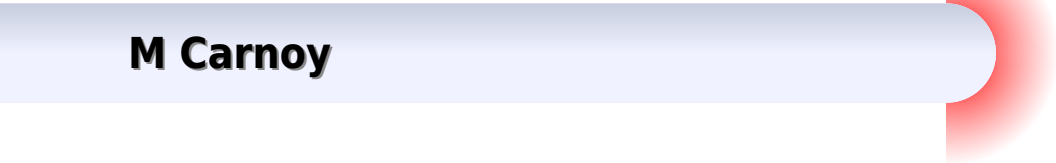
Mercury flights were launched with Titan and Redstone rockets, and the astronauts splashed down in small recovery capsules slowed by parachutes. The process of getting up into space and back down onto Earth was a major undertaking in itself. Because it had never been done before, space vehicles had to be designed to overcome the intense heat that would come as the craft re-entered Earth's atmosphere. A lengthy debate ensued on the benefits of using a large, copper heat shield to diffuse the temperatures, versus **ablation**—the melting of a protective layer on the capsule—to safeguard the passengers. Ablation won, along with a change in design to create a blunt-ended capsule, which would better dissipate energy and heat.



The 10 manned flights of the **Gemini flight program** followed Mercury and extended from 1965 through 1966. Gemini built on the successes of Mercury, stressing the goals of *subjecting men to long-duration flights, and docking with other orbiting objects*. The longest Gemini flight lasted 10 days, and after several attempts, Gemini was able to dock and separate from Agena, an unmanned satellite. Astronauts participated in several **extra vehicular activities** (EVAs).

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linear programming exercises v kostoglou 17 problem 9 an investor has the available profitable investment activities a and b for each year of the next five ones every dollar invested at the beginning of the one year in activity a becomes 1 40 two years later every dollar invested in the activity b for each year becomes 1 70 three years

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fundamentals and practice of linear programming the exercises demonstrate how to solve classical optimization problems with an emphasis on spatial analysis in supply chain management and transport logistics all exercises display the python programs and optimization libraries used to

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linear programming uses linear algebraic relationships to represent a firm s decisions given a business objective and resource constraints steps in application 1 identify problem as solvable by linear programming 2 formulate a mathematical model of the unstructured problem 3 solve the model 4 implementation introduction