

PARADOX OF THE TWINS

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Demonstrates the "Twin Paradox" of one person travelling through space at a speed near light versus a person who stays on Earth. The person on Earth ages faster than the one travelling.

# PROGRAM PRINTOUT

## PARADOX OF THE TWINS



**T**HIS PROGRAM dramatizes the "Twin Paradox" phenomenon. In it one twin is sent on a journey into space lasting 16 years (eight years out and eight years back) at a speed you are prompted for. Applying the Einstein description of time and motion to the traveler, it is found that the other twin, who waits for him on Earth, ages faster than the traveler! For speeds of worldly experience (like the orbital speed of a Salyut or Space Shuttle) this age disparity is

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100106      * * PARADOX OF THE
100106      * * TWINS * *
100106      * * "TWIN 1 STAYS ON EA
100106      * * "TWIN 2 / TRAVELS FOR 8 YEAR
100106      * * AND RETURNS"
100106      * * "HOW MUCH YOUNGER I
100106      * * "TWIN 2 THAN TWIN 1?"
100106      * * "INPUT SPEED OF TUI
100106      * * "IN UNIT OF LIGHT, 299,792 KM/H
100106      * * "MAXIMUM)"
100106      * * "PUT U
100106      * * "U>299791.9999 THEN GOTO
100106
100106      CLS
100106      LETS U=U/299792
100106      LET A=(1+U)/(1-U)
    
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