

PROBLEM SOLVING Using the Four-Step Plan

You are a computer engineer for a satellite launch. The launch time has been delayed from 9:30 p.m. to 11:45 p.m.

You need to reschedule the beginning and ending times of three programs that the satellite's computer will automatically run before and after the launch. The beginning times and the durations for each program are shown in the table.

Program	Beginning Time	Program Duration
Computer memory test	$T - 15$ minutes	3 minutes, 15 seconds
Launch safe hold	$T - 8$ minutes	15 minutes, 0 seconds
Separation from launch vehicle	$T + 28$ minutes	1 minute, 45 seconds

The beginning times of the programs are given relative to liftoff time T . The minutes and seconds before liftoff are negative.

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