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Initialize

```
clear; clc;
```

Define variables and constants

```
global mu
mu = 398600; % km^3/s^2
```

Initial conditions

do algortihm (from appendix D.16) and output results

```
[R, V] = rv_from_r0v0(R0, V0, t);
fprintf("Final position: R=(%g, %g, %g) km", R(1), R(2), R(3));
fprintf("\nFinal velocity: V=(%g, %g, %g) km/s", V(1), V(2), V(3));
```

```
Final position: R=(23047.4, -6972.41, -9219.57) km Final velocity: V=(6.65628, 0.886381, -3.96803) km/s
```

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