```julia
function two_body!(du, u, μ, t)
        # u = [ x, y, z, vx, vy, vz ]
        # du[1:3] = v
        # du[4:6] = acceleration
        @views du[1:3] .= u[4:6]
        r = @view u[1:3]
        r_norm = norm(r)
        @views du[4:6] .= -μ .* r ./ (r_norm^3)
end

function solve_2BP(initial::StateVectors,
                   tspan::Tuple{Float64, Float64};
                   μ::Float64 = μ_Earth,
                   reltol::Float64 = 1e-9,
                   abstol::Float64 = 1e-9,
                   int_pts::Int64 = 2)

        # Pack initial conditions into a 6-vector
        u0 = vcat(initial.r, initial.v)

        # Set up and solve the ODE problem
        prob = ODEProblem(two_body!, u0, tspan, μ)
        sol  = solve(prob, Tsit5(), reltol=reltol, abstol=abstol,
saveat=range(start=tspan[1], stop=tspan[2], length=int_pts))

        return [StateVectors(u[1:3], u[4:6]) for u in sol.u]
end

export solve_2BP
```

Error: UndefVarError: `StateVectors` not defined in `Main.var"##WeaveSandBo
x#239"`
Suggestion: check for spelling errors or missing imports.