



```
% RPM < 1750
if RPM < 1750
   T = 0;
% 1750 < RPM < 3800
elseif RPM < 3600
   % BSM19 Engine HP vs. RPM Equation (3rd Order)
   HP = -2.874 * 10^{-10} * RPM.^3 ...
        + 1.781 * 10^-06 * RPM.^2 ...
        - 6.842 * 10^-04 * RPM.^1 ...
        + 1.719 * 10^000 * RPM.^0;
   % Torque = Power / Angular Velocity
   T = HP ./ (RPM*2*pi) * 33000;
% 3600 < RPM < 3800
elseif RPM < 3800
   % Linearized Governor
   T = -0.065 * RPM + 247;
% RPM > 3800
else
  T = 0;
```

function T = fcn(RPM)

end



