2. Three-color Ramsey numbers for paths

$R(G_1, G_2, \ldots, G_r)$ is the minimum n such that an arbitrary r-edge coloring of K_n contains a copy of G_i in color i for some i.

Very little is known about $R(G_1, \ldots, G_r)$ in general, there are some results for special graphs.

Gerencsér-Gyárfás 1967

$$R(P_n, P_n) = \left\lfloor \frac{3n-2}{2} \right\rfloor$$

Sharpness:

n even