

- |
- C) Suppose I drive at a certain speed  $S > 0$  (in mph) for a certain time  $T > 0$  (in hours). Increasing my driving speed by 20 mph and decreasing my driving time by 1 hour, I cover the same distance. If the speed limit is 65 mph and I never break the speed limit (a governor has been installed in my vehicle), compute the number of possible ordered pairs  $(S, T)$ , where  $S$  and  $T$  are both integers.