1- The maximum range R_{max} in FMCW radar system increases when:
   A) The sweep slope S increases
   B) The maximum intermediate frequency f_{IF_max} decreases
   C) The radar sweep slope S decreases
   D) The pulse repetition frequency increases.

2- To improve range resolution ΔR in FMCW radar, the system should:
   A) Increase the chirp duration T_c
   B) Increase the transmit signal bandwidth B
   C) Decrease the sweep slope S
   D) Increase the operating frequency f_c