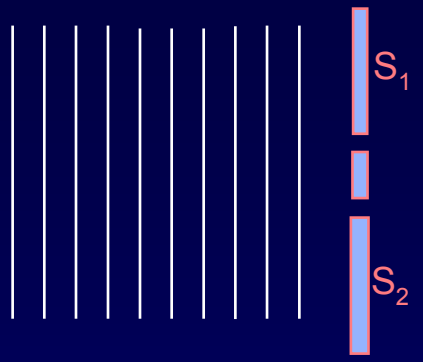
Act 3: 2-slit interference



We now increase the wavelength by 20 and decrease the slit spacing by 10, i.e., direct a 10.6-μm laser onto two slits separated by 12.5 μm.

How *many* interference peaks may be observed?
(Hint: Does the small angle approximation hold?)

a. 0 b. 1 c. 3 d. 4 e. ∞