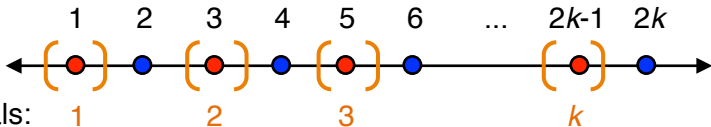


a. $2k$ can be shattered with k intervals



b. $2k+1$ cannot be shattered with k intervals

