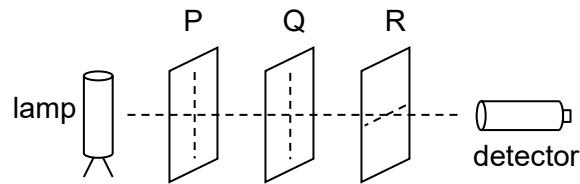


- 18** Three polaroid sheets P, Q and R are placed along a straight line between a lamp and a detector.



Initially, the directions of polarisation of P and Q are parallel but normal to the direction of polarisation of R.

What happens to the intensity I recorded by the detector when Q is rotated slowly through an angle of 90° until its direction of polarisation is parallel to that of R?

- A** I remains unchanged.
- B** I increases throughout.
- C** I increases and then decreases.
- D** I decreases and then increases.