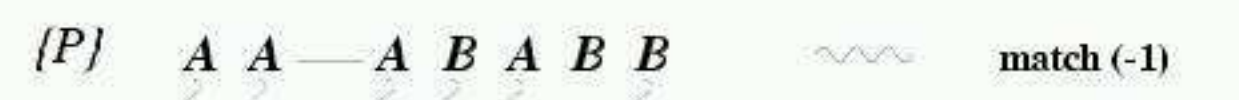

FIG. 1. One possible alignment of two binary sequences, $\{P_i\} = AAABABB$ and $\{Q_j\} = ABBABAB$, with six pairings (five matches, one mismatch) and two gaps.