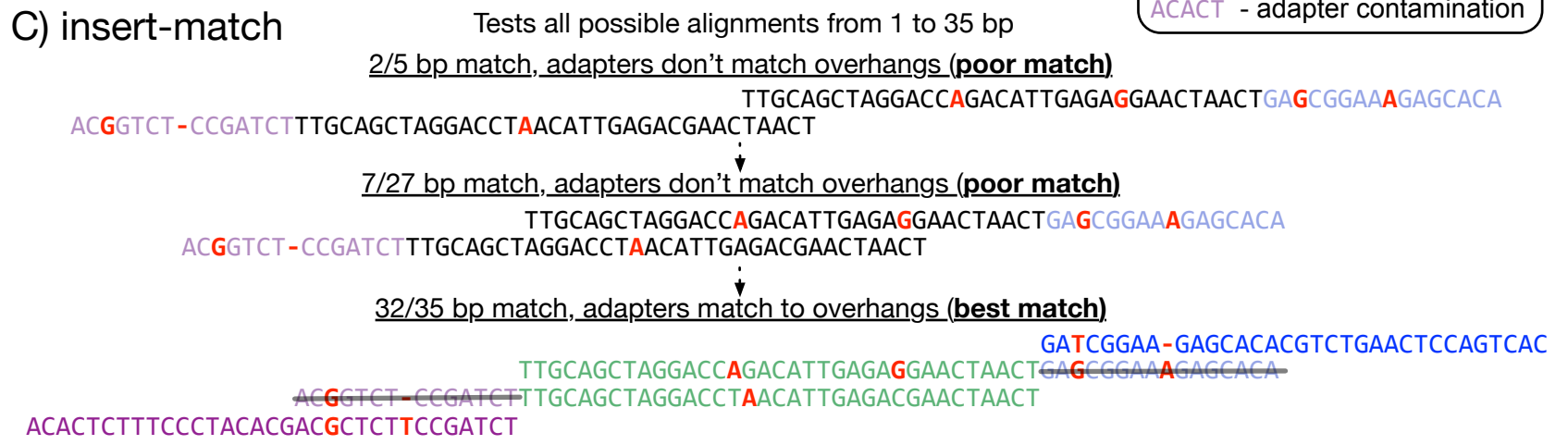


TTGCA - template sequence  
 GAAGC - mismatch/error  
 GA-TC - gap (indel)  
 ACGCT - trimmed sequence  
 read 1:  
 GATCG - adapter sequence  
 GATCG - adapter contamination  
 read 2:  
 ACACT - adapter sequence  
 ACACT - adapter contamination

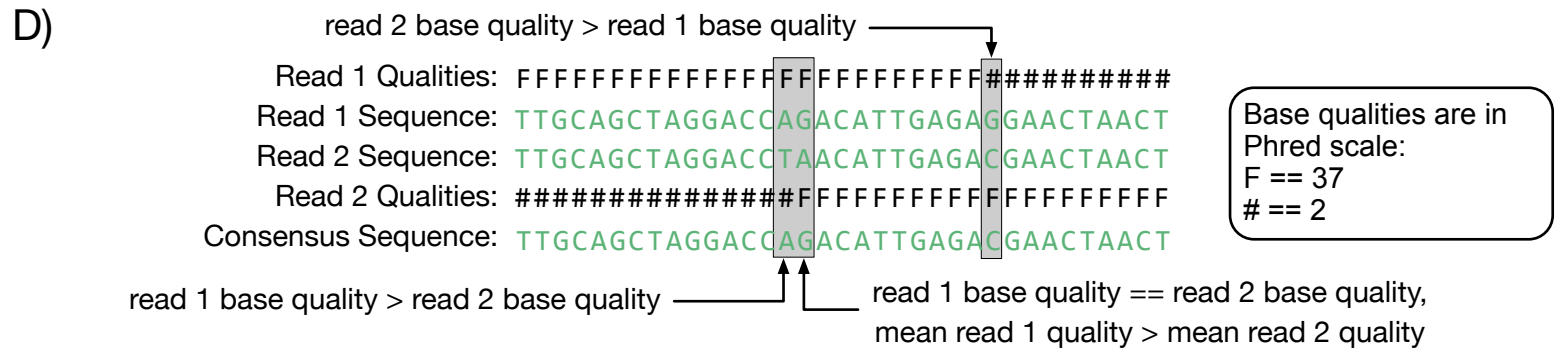
B) adapter-match

read 1 **GATCGGAAGAGCACACGTCTGAACTCCAGTCAC**  
 TTGC...AACT**GAGCGGAAAGAGCACA**  
 read 2 **AGATCGGAAGAGCGCTCGTGTAGGGAAAGAGTGT**  
 AGTT...GCAA**AGATCGG-AGACCCGT**

C) insert-match



D)



E)

