

## Read to Reference Alignment

$T_{A \setminus B}$        $T_{B \setminus A}$

Pos ..  $t_0$  ..      ..  $t_{19}$  ..

Ref .. **ACGTTACGTCTACGGACACG** ..

$R_A \rightarrow$  **GTTACGTCTACG**

$R_B \rightarrow$       **GTCTACGGACA**

**GTTACGT--ACG**

**GT--ACGGACA**

**GTTACGT--CCG**

**GTC--CGGACA**

**GTTACGTCTACG**

**GT-TACGGACA**

**GTTACGT--ACG**

**GTC--CGGACA**

— (1) →

— (2) →

— (3) →

— (4) →

— (5) →

## Read to Read Alignment

$U_{A \setminus B}$        $U_{A \cap B}$        $U_{B \setminus A}$

1 ...      ... m ← Read index

**GTTACGTCTACG**-----

-----**GTCTACGGACA**

**GTTACGTACG**-----

-----**GTACGGACA**

**GTTACGTTCG**-----

-----**GTCGGACA**

**GTTACGTCTACG**-----

-----**GT-TACGGACA**

**GTTACGT-ACG**-----

-----**GTC-CGGACA**

} Edge candidates

} No edge