

D:\UoA\BioinformaticsJava>javac BioInfo.java

D:\UoA\BioinformaticsJava>java BioInfo

```

0 -1 -2 -3 -4
-1 1 0 -1 -2
-2 0 0 1 0
-3 -1 -1 0 2

```

The path is:

4,3 <=> 3,2 <=> 2,1 <=> 1,1 <=> 0,0

Alignment of Sequences:

```

A G T A
A - T A

```

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```

0 -1 -2 -3 -4 -5
-1 1 0 -1 -2 -3
-2 0 2 1 0 -1
-3 -1 1 1 2 1
-4 -2 0 0 1 3

```

The path is:

5,4 <=> 4,3 <=> 3,2 <=> 2,2 <=> 1,1 <=> 0,0

Alignment of Sequences:

```

A G T A C
A G - A C

```

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```

0 -1 -2 -3 -4 -5 -6 -7 -8 -9
-1 -1 -2 -3 -2 -3 -4 -5 -6 -7
-2 -2 -2 -3 -2 -1 -2 -3 -4 -5
-3 -3 -3 -1 -2 -2 -2 -1 -2 -3
-4 -2 -3 -2 -2 -3 -1 -2 -2 -3
-5 -3 -1 -2 -3 -3 -2 -2 -1 -1
-6 -4 -2 -2 -1 -2 -3 -3 -2 -2
-7 -5 -3 -3 -1 0 -1 -2 -3 -3
-8 -6 -4 -4 -2 -1 1 0 -1 -2
-9 -7 -5 -3 -3 -2 0 2 1 0

```

The path is:

9,9 <=> 8,9 <=> 7,9 <=> 6,8 <=> 5,7 <=> 4,6 <=> 3,5 <=> 2,5 <=> 1,4 <=> 0,3 <=> 0,2 <=> 0,1 <=> 0,0

Alignment of Sequences:

```

- - - T G C A A T C G G
A A C T G - A A T C - -

```

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```

0 -1 -2 -3 -4 -5 -6 -7 -8 -9
-1 0 -1 -2 -1 -2 -3 -4 -5 -6
-2 -1 0 -1 0 1 0 -1 -2 -3
-3 -2 -1 2 1 0 1 2 1 0
-4 -1 -2 1 2 1 2 1 2 1
-5 -2 1 0 1 2 1 2 3 4
-6 -3 0 1 2 3 2 1 2 3
-7 -4 -1 0 3 4 3 2 1 2
-8 -5 -2 -1 2 3 6 5 4 3
-9 -6 -3 0 1 2 5 8 7 6

```

The path is:

9,9 <=> 8,9 <=> 7,9 <=> 6,8 <=> 5,7 <=> 4,6 <=> 3,5 <=> 2,5 <=> 1,4 <=> 0,3 <=> 0,2 <=> 0,1 <=> 0,0

Alignment of Sequences:

```

- - - T G C A A T C G G
A A C T G - A A T C - -

```