Get Started

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### Feedback — Week 2 Quiz

Help Center

You submitted this quiz on **Thu 6 Aug 2015 4:08 AM PDT**. You got a score of **10.00** out of **10.00**.

### **Question 1**

Consider the following alignment:

TCGAC--ATT

CC---GAA-T

What is the score of this alignment if the match score is 1, the mismatch penalty is 1, and the indel penalty is 2?

### You entered:

-10

Your Answer		Score	Explanation
-10	~	2.00	
Total		2.00 / 2.00	

## **Question 2**

Consider the following alignment:

TACTATTTACAGTAGACACGT

AACAGAC-ATAC-AGATACCT

What is the score of the red portion of this alignment as a local alignment if the match score is 1,

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the mismatch penalty is 3, and the indel penalty is 1?

### You entered:



Your Answer		Score	Explanation
-3	~	2.00	
Total		2.00 / 2.00	

# **Question 3**

Say that the match score is 1, the mismatch penalty is 1, and the indel penalty is 1.

What is the maximum score of a fitting alignment of ACGTCG and GTTGGATTACGAATCGATATCTGTTTG? (Hint: don't make this problem too difficult.)

### You entered:



Your Answer		Score	Explanation
4	~	2.00	
Total		2.00 / 2.00	

## **Question 4**

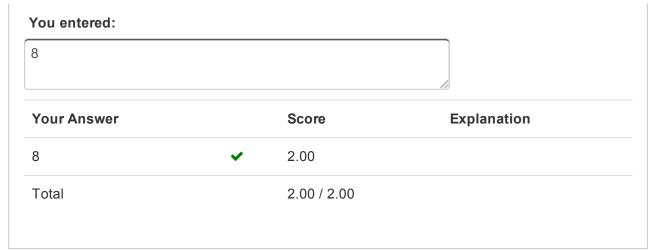
Say that the match score is 1, the mismatch penalty is 0, and the indel penalty is 2.

Score the following overlap alignment.

AGTACATCAGAGGAGTT-ACATACTAACG

AGTTCACAGGCTA-CGTACAGATATTACGACAGGCAGA

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# **Question 5**

What type of alignment should you use if you are interested in aligning DNA reads forming a contiguous interval of a genome?

Your Answer		Score	Explanation
<ul> <li>Global alignment</li> </ul>			
<ul> <li>Local alignment</li> </ul>			
Fitting alignment			
<ul><li>Overlap alignment</li></ul>	<b>~</b>	2.00	
Total		2.00 / 2.00	