# Feedback — How Do We Find Disease-Causing Mutations? (Weeks 2-3)

Help Center

You submitted this quiz on **Tue 9 Feb 2016 10:15 PM PST**. You got a score of **10.00** out of **10.00**.

## Question 1

Give the suffix array of "ananas$". Return your answer as a list of integers separated by spaces (e.g., 0 1 2 3 4).

**You entered:**

6 0 2 4 1 3 5

| Your Answer | | Score | Explanation |
|---|---|---|---|
| 6 0 2 4 1 3 5 | ✔ | 2.00 | |
| Total | | 2.00 / 2.00 | |

## Question 2

True or False: A key feature of the Burrows-Wheeler Transform is that it transforms repeats into runs.

| Your Answer | | Score | Explanation |
|---|---|---|---|
| ◉ True | ✔ | 1.00 | |
| ○ False | | | |
| Total | | 1.00 / 1.00 | |

## Question 3

Find the Burrows-Wheeler transform of Text = GATTGCTTTT$.

**You entered:**

TGG$TTTTATC

| Your Answer | | Score | Explanation |
|---|---|---|---|
| TGG$TTTTATC | ✔ | 2.00 | |
| Total | | 2.00 / 2.00 | |

# Question 4

If *BWT*(*Text*) = TTCCATTGGA$, what is *Text*? (Don't forget to add the "$" to the end of *Text*...)

**You entered:**

TGTACCATGT$

| Your Answer | | Score | Explanation |
|---|---|---|---|
| TGTACCATGT$ | ✔ | 2.00 | |
| Total | | 2.00 / 2.00 | |

# Question 5

Which of the following structures did we use in this chapter to decrease memory when solving the Multiple Pattern Matching Problem with the Burrows-Wheeler transform? (Select all that apply.)

| Your Answer | | Score | Explanation |
|---|---|---|---|
| ☑ checkpoint arrays | ✔ | 0.25 | |
| ☑ partial suffix arrays | ✔ | 0.25 | |
| ☐ skew diagrams | ✔ | 0.25 | |
| ☐ breakpoint graphs | ✔ | 0.25 | |

| | |
|---|---|
| Total | 1.00 / 1.00 |

# Question 6

Say that you know that two strings of length 363 match with at most 5 mismatches, but you don't know what the strings are. What is the largest value of *k* such that we can guarantee that the two strings share a *k*-mer?

**You entered:**

60

| Your Answer | | Score | Explanation |
|---|---|---|---|
| 60 | ✔ | 2.00 | |
| Total | | 2.00 / 2.00 | |