Quiz 8

Deadline	Sunday, 09 August 2020 at 11:59PM
Latest Submission	no submission yet
Maximum Mark	4

Question 1 (1 mark)

If we have an alphabet $\Sigma = \{a, b, c\}$, how many strings are in Σ^2 ?

(a) O	3
(b) O	6
(c) O	9
(d) O	3 ³ (i.e. 27)
(e) O	None of the above

Question 2 (1 mark)

Consider the following implementation of naive string matching

How many times would the (T[i+j] != P[j]) test be done in executing the following call to the above function

int where = naiveStringMatch("my string","tri");

(a) O	3
(b) O	5
(c) O	6
(d) O	7
(e) O	None of the above

Question 3 (1 mark)

Assuming the following functions on Lists

- List new() returns a new empty List
- bool empty(List L) checks whether L is empty
- int head(List L) returns first element in L
- List tail(List L) returns all but first element in L
- List insert(int x, List L) returns new list with x as head and L as tail
- List append(List L, int x) returns new list with x as last element
- List concat(List L1, List L2) returns new list which is concatenation of lists L1 and L2

which of the following functions produces a reversed version of the original List?

```
(a) ○
List reverse(List L) {
   if (empty(L))
      return(new());
   else
      return(append(reverse(tail(L)), head(L));
}

(b) ○
List reverse(List L) {
   if (empty(L))
      return(new());
   else
      return(insert(head(L), reverse(tail(L)));
}
```

```
(c) O
           List reverse(List L) {
              if (empty(L))
                 return(new());
              else
                 return(insert(head(L),tail(L));
           }
(d) O
           List reverse(List L) {
              if (empty(L))
                 return(new());
              else
                 return(append(tail(L),head(L));
           }
          None of the above
(e) O
```

Question 4 (1 mark)

What is the meaning of IOCCC?

(a) O	International Olympic Committee for Casual Clothing
(b) O	International Obfuscated C Coding Competition
(c) O	International Organisation for Clean Concise Coding
(d) O	Internal Optimisation of C Code Closures
(e) O	None of the above

✓ Submit