

Networking Fundamentals Test : 2017

Test ka arambh

What is the output of below piece of code:

1 point

```
public class CreateBuffer {  
    static public void main(String[] args) throws Exception {  
        ByteBuffer buffer = ByteBuffer.allocate( 1024 );  
        buffer.put( (byte)'a' );  
        buffer.put( (byte)'b' );  
        buffer.put( (byte)'c' );  
        buffer.put( (byte)'d' );  
        char a = (char)buffer.get();  
        char b = (char)buffer.get();  
        buffer.flip();  
        buffer.put( (byte)'a' );  
        buffer.put( (byte)'b' );  
        System.out.print( (char)buffer.get() );  
        System.out.print( (char)buffer.get() );  
    }  
}
```

- ☐ A : ab
- ☒ B : cd
- ☐ C : Garbage value
- ☐ D : Compilation Error

Identify the correct sequence in which the following packets are transmitted on the network by a host when a browser requests a webpage from a remote server, assuming that the host has just been restarted. 1 point

- ☐ A. HTTP GET request. DNS query. TCP SYN

- ☐ B. DNS query, HTTP GET request, TCP SYN
- ☒ C. DNS query, TCP SYN, HTTP GET request
- ☐ D. TCP SYN, DNS query, HTTP GET request

Which one of the following statements is FALSE?

1 point

- ☐ A. HTTP runs over TCP
- ☒ B. HTTP describes the structure of web pages
- ☐ C. HTTP allows information to be stored in a URL
- ☐ D. HTTP can be used to test the validity of a hypertext link

What are the issues in blocking multi-threaded environment that we solve using event-driven environment

1 point

1. overhead of context switching
2. garbage collection blocks the flow
3. High resource allocation

- ☐ A : 1, 2
- ☒ B : 1, 3
- ☐ C : 1, 2, 3
- ☐ D : 2, 3

Choose the best matching between Group 1 and Group 2.

1 point

- | Group-1 | Group-2 |
|------------------|---|
| P. Data link | 1. Ensures reliable transport of data over a physical point-to-point link |
| Q. Network layer | 2. Encoder/decodes data for physical |

transmission

- R. Transport layer 3. Allows end-to-end communication between two processes
4. Routes data from one network node to the next

- ☒ A. P-1, Q-4, R-3
- ☐ B. P-2, Q-4, R-1
- ☐ C. P-2, Q-3, R-1
- ☐ D. P-1, Q-3, R-2

Which one of the following uses UDP as the transport protocol?

1 point

- ☐ A. HTTP
- ☐ B. Telnet
- ☒ C. DNS
- ☐ D. SMTP

List some of the big advantages of using event-driven architecture.

1 point

- ☒ A: Ability to build scalable programs
- ☐ B: Increased concurrency
- ☒ C: Asynchronous capabilities
- ☐ D: All of the above.

Which of the following system calls results in the sending of SYN packets?

1 point



- ☐ A. Socket
- ☐ B. Bind

- ☐ C. Listen
- ☒ D. Connect

Which of the following assertions is FALSE about the Internet Protocol (IP) ?

1 point

- ☐ A. It is possible for a computer to have multiple IP addresses
- ☐ B. IP packets from the same source to the same destination can take different routes in the network
- ☐ C. IP ensures that a packet is discarded if it is unable to reach its destination within a given number of hops
- ☒ D. The packet source cannot set the route of an outgoing packets; the route is determined only by the routing tables in the routers on the way

What will be the value of limit and position after executing above piece of code:

1 point

```
public class CreateBuffer {  
    static public void main(String[] args) throws Exception {  
        ByteBuffer buffer = ByteBuffer.allocate( 1024 );  
        buffer.put( (byte)'a' );  
    }  
}
```

```
buffer.put( (byte)'b' );
buffer.put( (byte)'c' );
buffer.put( (byte)'d' );
char a = (char)buffer.get();
char b = (char)buffer.get();
buffer.flip();
buffer.put( (byte)'a' );
buffer.put( (byte)'b' );
System.out.print( (char)buffer.get() );
System.out.print( (char)buffer.get() );
}
}
```

- ☐ A : limit=4, position=0
- ☐ B : limit=6, position=0
- ☐ C : limit=4, position=4
- ☒ D : limit=6, position=4

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