

1

Consider the *Design a URL Shortener* case study where Base 62 conversion is used in the short URL generation. In the read operation, how is the long URL obtained?



The short URI is converted to get a unique *id* that is used to search in the cache.

B

The short URI is converted and it is verified if there are collisions before searching in the cache.



All other options are false.

D

The short URL is used to search in the cache.

2

How many views can be used to describe the software architecture of a system?



A

Exactly one.



The number of views required to show the relevant qualities of the system.

C

Always two views.

D

One view of each viewtype.

3

The module viewtype is used for requirements traceability. How is this accomplished by the views of the module viewtype?



A

Because the modules are mapped to the software teams implementing them.

B

Because the modules are mapped to the files implementing them.



Because the module responsibilities are mapped to the functional requirements.

D

Because the module responsibilities are mapped to the non-functional requirements.

4

Which approach to designing a unique ID generator in distributed systems is simpler, in the sense that it does not require coordination between servers, and is easy to scale?



A

Ticket server.



UUID.

C

Multi-master replication.

D

Twitter snowflake approach.

5

The module viewtype is used for impact analysis. Which relationship type is more useful for impact analysis?

A

Is part of.

B

Is a.



Depends on.

D

Is module of.