

Project based:

Discussion related to Project, its features and Limitations

Asked to how can I overcome its limitations

Data structure based:

Asked about Maps

Their Internal implementation

How Collisions in maps are handled

What is an Associative array

What are Vectors

Vectors internal working. How does a vector expand.

Design problem:

Design a new data structure which is similar to a vector but we don't want the overhead of copying and we want the Ds to be expandable and retain random access. Write its class-data members and functions

Conceptual knowledge based:

Write swap function. What happens internally when we use call by value, call by reference and call using pointers.

Coding problem:

Write a function to wordwise reverse the given string, keeping relative positions of special characters same.

Eg: Hi! My name is Shagun. How, are, you?

Output : you! are How Shagun is. name, My, Hi?

System design:

Given a class description and its APIs, determine the data members and write implementation of the APIs.

Little bit discussion about interests and extra curricular activities.