RollNo:

Issue Date: 18-Apr-2014

Objective:

• The purpose of this quiz is to focus on the very basic fundamental concepts practiced so far in previous labs.

Question No 1: I hope you are familiar with the following ADT given in practice file of Stack. You are required to implement the following ADT.

```
class UndoRedo
{
    int capacity; //N // number of operations that can be memorized //decide rest of the data
    structure yourself

public:
    UndoRedo (int c = 10);
    void memoriseOperation(int op);
    int undo();
    int redo();
};
```

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Question No 2: (5)

Write a function, which receives an array and shuffles the elements of the received array.

Question No 3: (5)

Devise a formula for storing following N order symmetric sparse matrix.

*				*
*	*			*
*		*		*
*			*	*
*				*

Sparse Matrix of Order N: where * shows the non-zero values

Question No 4: (3)

Give worst time bound of the following code segment.

```
for (int i=1; i^2 < N; i++) { cout<<"what to do now"; }
```