Dry run for preorder traversal

1)
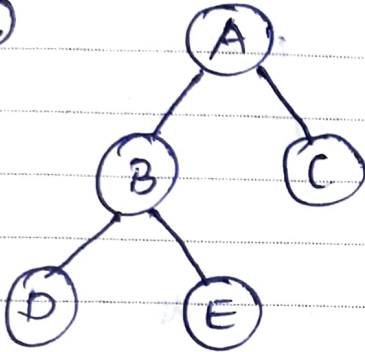
Preorder : Root Left Right

LL:
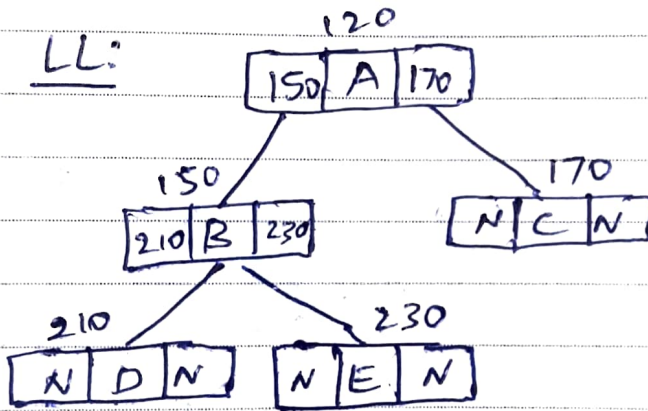
```
         120
      ┌────┬───┬────┐
      │150 │ A │170 │
      └────┴───┴────┘
       150              170
    ┌────┬───┬────┐   ┌───┬───┬───┐
    │210 │ B │230 │   │ N │ C │ N │
    └────┴───┴────┘   └───┴───┴───┘
     210        230
  ┌───┬───┬───┐ ┌───┬───┬───┐
  │ N │ D │ N │ │ N │ E │ N │
  └───┴───┴───┘ └───┴───┴───┘
```
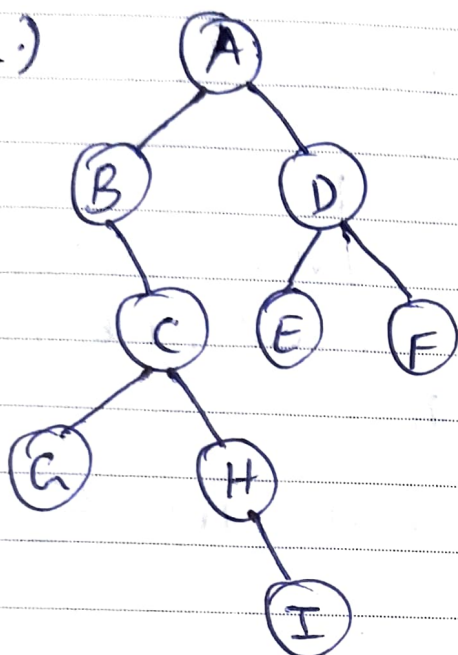
Code:

```
preorder ( root )
{
    if ( root == NULL )
    {
        return
    }
    else
    {
        cout << root → data;
        preorder (root → left);
        preorder (root → right);
    }
}
```

(i.) preorder (120)
{
   A
   preorder (150)
   preorder (170)
}

(ii.) preorder (150)
{
   B
   preorder (210)
   preorder (230)
}

(iii.) preorder (170)
{
   C
   preorder (NULL)
   preorder (NULL)
}

preorder (210)
{
   D
   preorder (N)
   preorder (N)
}

preorder (230)
{
   E
   preorder (N)
   preorder (N)
}

Preorder : A B D E C

2.)

2L:
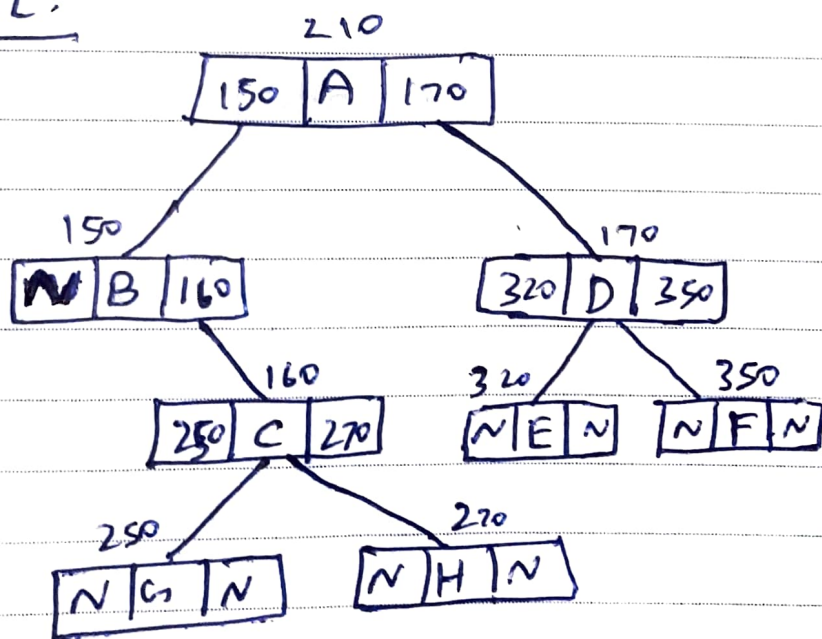
Code:

```
preorder (root)
{
  if (root == NULL)
  {
    return
  }
  else
  {
    cout << root → data;
    preorder (root → left);
    preorder (root → right);
  }
}
```

preorder (210)

8.00
{

A
preorder (150)
preorder (170)

10.00
}

preorder (150)
{

B
preorder (Null)
preorder (160)
}

preorder (170)
{

D
preorder (320)
preorder (350)

2.00
}

preorder (160)
{

C
preorder (250)
preorder (270)
}

preorder (320)
{

E
preorder (N)
preorder (N)

5.00
}

preorder (250)
{

G
preorder (N)
preorder (N)
}

preorder (350)
{

F
preorder (N)
preorder (N)

}

preorder (270)
{

H
preorder (N)
preorder (N)

}

Preorder: A B C G H D E F