

13/11/2020

Lab test -1DHANUVA M
18M19CS049Shruti

```
void push (int stack[], int ele, int top)
```

```
{
```

```
    if (top == SIZE-1)
```

```
    {
```

```
        printf ("Stack overflow");
```

```
    }
```

```
    else
```

```
    {
```

```
        top++;
```

```
        stack[top] = ele;
```

```
    }
```

```
}
```

```
int pop (int top, int stack[])
```

```
{
```

```
    int pop_ele;
```

```
    if (top == -1)
```

```
        return -1;
```

```
    else
```

```
    {
```

```
        pop_ele = stack[top];
```

```
        top--;
```

```
        return (pop_ele);
```

```
    }
```

```
}
```

void display (int stack []) { DHARUVA.M
IBM1915049

{
int i;
printf ("The stack elements are \n"),
for (i = top, i >= 0, i--)
{
printf ("%d\t", stack[i]);
}
}
}

void merge (int stack1[], int stack2[],
int stack3[])

{
int i;
if (top1 > top2)
{
int num = top1 - top2
for (i = 0; i < num; i++)
{
push3 (stack3, stack1[i]);
}
for (i = num; i <= top1; i++)
{
push3 (stack3, stack1[i] + stack2[i-1]);
}
}
}

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else if (top 2 > top 1)

{
int num = top 2 - top 1;

for (i = 0; i <= top 1; i++)

{
push (stack 3, stack 1[i] + stack 2[top 2 - i])
}

for (i = num - 1; i >= 0; i--)

{
push (stack 3, stack 2[i]),
}

}
else if (top 2 == top 1)

{
(c got < 1 got) for

for (i = 0; i <= top; i++)

{
c got - 1 got = more time

push (stack 3, stack 1[i] + stack 2[top 1 - i])

}

}

}