

Q1-Find the output of the following program

```
#include<iostream.h>
struct Package
{
int Length,Breadth,Height;
};
void Occupies(Package M)
{
cout<<M.Length<<"x" <<M.Breadth<<"x";
cout<<M.Height<<endl;
}
void main()
{
Package P1={100,150,50},P2,P3;
++P1.Length;
Occupies(P1);
P3=P1;
++P3.Breadth;
P3.Breadth++;
Occupies(P3);
P2=P3;
P2.Breadth+=50;
P2.Height--;
Occupies(P2);
}
```

Output

```
101x150x50
101x152x50
101x202x49
```

Q2-Write an algorithm code for the below pattern

```
*****
*   *   *   *
* *   *   * *
* * *   * * *
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* * * * * * * * *
* * * * * * * * *
```

code

```
n=5
for i in range (n,0,-1):
    for j in range(i,0,-1):
        print("*",end=" ")
    for j in range(2*(n-i)):
        print(" ",end=" ")
    for j in range(i,0,-1):
        print("*",end=" ")
    print()
for i in range(n):
    for j in range(i+1):
        print("*",end=" ")
    for j in range(2*(n-i-1)):
        print(" ",end=" ")
    for j in range(i+1):
        print("*",end=" ")
    print()
```

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