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III. List comprehention Interview Question with concept.

```
# L1 = []          We were using L1.append("1") but this is time consuming.
list_of_items = []
for i in range(1,10):      Tell the range or block
                           This should be (n+1) fourmat.
                           Here it will take input of 9 numbers.
    list_of_items.append(i)
print(list_of_items)       Here we have 9 number in a list.
## Lets do it in one line
list_comp_new = [i for i in range(1,11)]    If I don't give colon then we need to do this
print(list_comp_new)
```

This process is called LIST COMPREHENTION

```
list_comp_odd = [i for i in range(1, 11, 2)]
print(list_comp_odd)
```

list to store odd numbers from 1 to 10.

odd list comprehension.

Q) Print all possible coordinates of a cuboid.

```
a = input("Enter value of a")
y = input("Enter value of y")
z = input("Enter value of z")
n = input("Enter value of n")
final_list = []
for a in range(a+1):
    for b in range(y+1):
        for c in range(z+1):
            if a+b+c != n:
                final_list.append([a,b,c])
print(final_list)
```

In list comprehension we have to do it in one line.

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list_comp = [[a, b, c] for a in range(x+1) for b in range(y+1)
for c in range(z+1) if a+b+c != n]

you have done it in one line. Congrats!!!

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