

```
/*
```

TITLE

A magazine committee is to be formed that consists of any 3 members to be selected from { Nikhita, Aboli, Megha, Sanika, Pratik, Saurabh}.
Write C/C++ program to list all possible committees.

```
*/
```

```
#include<iostream>
```

```
#include<string.h>
```

```
using namespace std;
```

```
int main()
```

```
{
```

```
    int N, temp;
```

```
    int i, j, k, n=0;
```

```
    cout<<"\nEnter Number of Members = ";
```

```
    cin>>N;
```

```
    struct member_names
```

```
    {
```

```
        char name[10];
```

```
    }member[N];
```

```
    for(temp=0; temp<N; temp++)
```

```
    {
```

```
        cout<<"Enter Name of Member "<<temp+1<<" = ";
```

```
        cin>>member[temp].name;
```

```
    }
```

```
    cout<<"\nList of All Members :- \n {";
```

```
    for(i=0; i<N; i++)
```

```
    {
```

```
        cout<<" "<<member[i].name;
```

```
        if(i < N-1)
```

```
        {
```

```
            cout<<" ,";
```

```
        }
```

```
    }
```

```
    cout<<" }"<<endl;
```

```
    struct committee
```

```

{
    char mem1[10];
    char mem2[10];
    char mem3[10];
}com[20];

for(i=0; i<N-2; i++)
{
    for(j=i+1; j<N-1; j++)
    {
        for(k=j+1; k<N; k++)
        {
            strcpy(com[n].mem1, member[i].name);
            strcpy(com[n].mem2, member[j].name);
            strcpy(com[n].mem3, member[k].name);

            if(n < 20)
            {
                n++;
            }
        }
    }
}

cout<<"\nList of all Committes With 3 Members :- "<<endl;

for(i=0; i<20; i++)
{
    cout<<i+1;
    cout<<". \t"<<com[i].mem1<<", "<<com[i].mem2<<", "<<com[i].mem3<<endl;
}

cout<<endl;

return 0;
}

/*

```

OUTPUT

```

student@ubuntu:~$ c++ magazine.cpp -o a
student@ubuntu:~$ ./a

```

```

Enter Number of Members = 6
Enter Name of Member 1 = Nikita
Enter Name of Member 2 = Aboli

```

Enter Name of Member 3 = Megha
Enter Name of Member 4 = Sanika
Enter Name of Member 5 = Pratik
Enter Name of Member 6 = Saurabh

List of All Members :-
{ Nikita, Aboli, Megha, Sunita, Pratik, Saurabh }

List of all Committes With 3 Members :-

1. Nikita, Aboli, Megha
2. Nikita, Aboli, Sanika
3. Nikita, Aboli, Pratik
4. Nikita, Aboli, Saurabh
5. Nikita, Megha, Sanika
6. Nikita, Megha, Pratik
7. Nikita, Megha, Saurabh
8. Nikita, Sanika, Pratik
9. Nikita, Sanika, Saurabh
10. Nikita, Pratik, Saurabh
11. Aboli, Megha, Sanika
12. Aboli, Megha, Pratik
13. Aboli, Megha, Saurabh
14. Aboli, Sanika, Pratik
15. Aboli, Sanika, Saurabh
16. Aboli, Pratik, Saurabh
17. Megha, Sanika, Pratik
18. Megha, Sanika, Saurabh
19. Megha, Pratik, Saurabh
20. Sanika, Pratik, Saurabh

*/