Chapter 6 Farrell Exercise – Program 20 Code

```cpp
gram 20b.cpp  ×

4    int main()
5    {
6        const int CLASSES = 5;
7        int CLASS_NUMBERS[] = {1, 2, 3, 4, 5};
8        string CLASS_NAME[] = {"Yoga 1", "Yoga 2", "Children's Yoga", "Prenatal Yoga", "Senior Yoga"};
9        int INPUTS[100];
10       int inClassNum, x, i;
11       int END = 999;
12       bool foundIt = false;
13       int numberCount = 0;
14       int requests = 0;
15
16       for(x = 0; x < CLASSES; ++x){
17           cout << CLASS_NUMBERS[x] << ": " << CLASS_NAME[x] << endl;
18       }
19       cout << endl;
20       cout << "Input " << END << " to end program." << endl << endl;
21
22       cout << "Choose your classes. Enter corresponding numbers from 1 to 5:" << endl;
23       cin >> inClassNum;
24       while(i){
25           if(inClassNum == END){
26               break;
27           }
28           for(x = 0; x < CLASSES && foundIt == false; ++x){
29               if(inClassNum == CLASS_NUMBERS[x]){
30                   foundIt = true;
31                   INPUTS[numberCount] = inClassNum;
32                   ++numberCount;
33               }
34           }
35           if(foundIt == false){
36               cout << "Numbers must be within the range given..." << endl;
37           }
38           foundIt = false;
39           cin >> inClassNum;
40       }
41
42       --numberCount;
43       cout << endl;
44       for(x = 0; x < CLASSES; ++x){
45           for(i = 0; i <= numberCount; ++i){
46               if(CLASS_NUMBERS[x] == INPUTS[i]){
47                   ++requests;
48               }
49           }
50           if(requests > 0){
51               cout << "Class " << CLASS_NUMBERS[x] << ": " << CLASS_NAME[x] << ", " << requests << " request(s)" << endl;
52           }
53           requests = 0;
```

```
"C:\Users\Nii-san\Desktop\prog fund 1\Chapter 6\Farrell Exercises\Program 20b.exe"

1: Yoga 1
2: Yoga 2
3: Children's Yoga
4: Prenatal Yoga
5: Senior Yoga

Input 999 to end program.

Choose your classes. Enter corresponding numbers from 1 to 5:
1
1
1
1
1
12
Numbers must be within the range given...
2
3
3
3
5
5
5
1
1
1
1
2
5
3
3
2
5
1
5
5
1
1
2
3
999

Class 1: Yoga 1, 13 request(s)
Class 2: Yoga 2, 4 request(s)
Class 3: Children's Yoga, 6 request(s)
Class 5: Senior Yoga, 8 request(s)

Code by Jacob Smetana

Process returned 0 (0x0)   execution time : 21.727 s
Press any key to continue.
```