

1. Write a C++ program to overload the function Search() to search an integer key value and a key value of type double.

```
#include <iostream.h>
using namespace std;

// Function to search an integer key value
int Search(int arr[], int size, int key) {
    for (int i = 0; i < size; i++)
        {if (arr[i] == key) {
            return i;
        }
    }
    return -1;
}

// Function to search a key value of type double
int Search(double arr[], int size, double key)
{ for (int i = 0; i < size; i++) {
    if (arr[i] == key)
        {return i;
        }
    }
    return -1;
}

int main() {
    int intArr[] = { 10, 20, 30, 40, 50 };
    double doubleArr[] = { 1.1, 2.2, 3.3, 4.4, 5.5 };

    // Searching for an integer key value
    int intIndex = Search(intArr, 5, 30);
    if (intIndex != -1) {
        cout << "Integer key value found at index " << intIndex << endl;
    }
}
```

```
else {  
    cout << "Integer key value not found" << endl;  
}  
  
// Searching for a key value of type  
double int doubleIndex =  
Search(doubleArr, 5, 3.3);if  
(doubleIndex != -1) {  
    cout << "Double key value found at index " << doubleIndex << endl;  
}  
else {  
    cout << "Double key value not found" << endl;  
}  
  
return 0;  
}
```

OUTPUT