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Q. Project based on storing data of books in the Library.

INPUT

```
#include <stdio.h>
```

```
#include <stdlib.h>
```

```
#include <conio.h>
```

```
void insert();
```

```
void search();
```

```
struct book
```

```
{
```

```
    int book_code; char
```

```
    Name[50]; char
```

```
    author[50];
```

```
};
```

```
struct book s;
```

```
void main()
```

```
{
```

```

int choice; while
(choice != 3)
{
    printf("\n\n");
    printf("\t'WELCOME TO SRM LIBRARY '\n\n\n");

    printf("\t\t****Options    which    are
    available****\n\n"); printf("\t\t1: Insert
    Book record\n"); printf("\t\t2: Search Book
    record\n");    printf("\t\t3:    Exit\n\n");
    printf("\t\tEnter Your Choice : ");
    scanf("%d", &choice); switch (choice)
    {
    case 1:
        system("cls");
        insert();
        break;
    case 2:
        system("cls");
        search();
        break;
    case 3:
        exit(1);
        break;

    default:

```

```

        printf("\n\t\t!!! You Entered The Wrong Choice !!!\n\n");

    }
    getchar();
}
}

```

```

void insert()

```

```

{

    FILE *fp;
    fp = fopen("books.txt", "a+");
    printf("\n\n\t\t^^^^ ENTER NEW BOOK DATA ^^^^");
    printf("\n\n\t\tEnter Book Code : "); scanf("%d",
    &s.book_code); fflush(stdin);
    printf("\n\t\tEnter Book's Name : ");
    gets(s.Name);
    printf("\n\t\tEnter Author's Name : ");
    gets(s.author); fwrite(&s, sizeof(s), 1,
    fp);
    {

        printf("\n\n\t\tBook Database Recorded Successfully !!!\n");
    }

    fclose(fp);
}

```

```
printf("\n\t\tRecord Updated !!!\n\n");  
}
```

```
void search()  
{  
    int code, flag = 0; FILE  
    *fp;  
    fp = fopen("books.txt", "r"); if  
    (fp == NULL)  
    {  
  
        printf("\n\t\tError : File Does Not Exist !!! "); return;  
    }  
}
```

```
printf("\n\n\tEnter Student Book Code which You Want To Search : ");  
scanf("%d", &code);  
while (fread(&s, sizeof(s), 1, fp) > 0 && flag == 0)  
{  
  
    if (s.book_code == code)  
    {  
  
        flag = 1;  
        printf("\n\n\tSearch Successfull And Book Records is as  
        follows:"); printf("\nBook Code: %d", s.book_code);  
    }  
}
```

```

        printf("\nName of the Book: %s",s.Name); printf("\nName of The
        Author: %s\n\n",s.author);
    }
}

if (flag == 0)
{

    printf("\n\n\t\t!!! No Record Found !!!\n\n");
}

fclose(fp); }

```

OUTPUT

'WELCOME TO SRM LIBRARY '

****Options which are available****

- 1: Insert Book record
- 2: Search Book record
- 3: Exit

Enter Your Choice : 1

^^^^ ENTER NEW BOOK DATA ^^^^^

Enter Book Code : 67687

Enter Book's Name : alchemist

Enter Author's Name : Paulo Choelho

Book Database Recorded Successfully !!!

Record Updated !!!

'WELCOME TO SRM LIBRARY '

**** Options which are available****

1: Insert Book record

2: Search Book record

3: Exit

Enter Your Choice : 2

Enter Student Book Code which You Want To Search : 67687

Search Successful And Book Records is as follows:

Book Code: 67687

Name of the Book: alchemist

Name of The Author: Paulo

Choelho

```
'WELCOME TO SRM LIBRARY '
```

```
***Options which are available*
```

```
1: Insert Book record  
2: Search Book record  
3: Exit
```

```
Enter Your Choice : █
```

```
'WELCOME TO SRM LIBRARY '
```

```
***Options which are available*
```

```
1: Insert Book record  
2: Search Book record  
3: Exit
```

```
Enter Your Choice : 1█
```

```
^^^^ ENTER NEW BOOK DATA ^^^^
```

```
Enter Book Code : 67687
```

```
Enter Book's Name : alchemist
```

```
Enter Author's Name : Paulo Coelho
```

```
Book Database Recorded Successfully !!!
```

```
Record Updated !!!
```

```
'WELCOME TO SRM LIBRARY '
```

```
***Options which are available*
```

```
1: Insert Book record  
2: Search Book record  
3: Exit
```

```
Enter Your Choice : 2█
```

Enter Student Book Code which You Want To Search : 67687

Search Successfull And Book Records is as follows:

Book Code: 67687

Name of the Book: alchemist

Name of The Author: Paulo Coelho