	PUNE INSTITUTE OF COMPUTER TECHNOLOGY PUNE - 411043	
	Department of Electronics & Telecommunication	
	ASSESSMENT YEAR: 2024-2025	CLASS: SE
	SUBJECT: DATA STRUCTURES	
EXPT No:	LAB Ref: SE/2024-25/	Starting date:
	Roll No: 22203	Submission date:

Title:	Database Management (Using structure)
Problem Statement	Write a program in C to create database management using an array if structures. Experiment to validate the following operation A. With pointers to arrays B. Without pointers to arrays 1. Create, 2. Display, 3. Modify, 4. Append, 5. Search, 6. Sort

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Batch: E6


Without Pointers:-

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

```
struct components{
    int sr_no;
    char comp_name[20];
    char symbol;
    int value;
    float cost;
};
```

```
struct components comp[100];
```

```
void create(struct components comp[],int *n){
    for(int i=0;i<*n;i++){
        printf("Enter The Sr.no :\t");
        scanf("%d",&comp[i].sr_no);
```

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```

    printf("Enter The Name of Component %d:\t",i+1);
    scanf("%s",comp[i].comp_name);
    printf("Enter The Symbol :\t");
    scanf(" %c",&comp[i].symbol);
    printf("Enter The Value :\t");
    scanf("%d",&comp[i].value);
    printf("Enter The Cost :\t");
    scanf("%f",&comp[i].cost);
}
}

void display(struct components comp[],int n){
    printf("\nSr.no\tComponent Name\tSymbol\tValue\tCost\n");
    for(int i=0;i<n;i++){
        printf("\t%d\t\t\t%s\t\t\t%c\t\t%d\t\t\t%.2f\n", comp[i].sr_no,
comp[i].comp_name, comp[i].symbol, comp[i].value, comp[i].cost);
    }
}

void modify(struct components comp[],int n){
    int no_comp;
    printf("Enter the Sr no of component to modify:");
    scanf("%d",&no_comp);
    for(int i=0;i<n;i++){
        if(comp[i].sr_no==no_comp){
            printf("Enter The Name of Component %d:\t",no_comp);
            scanf("%s",comp[no_comp].comp_name);
            printf("Enter The Symbol :\t");
            scanf(" %c",&comp[no_comp].symbol);
            printf("Enter The Value :\t");

```

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```


scanf("%d",&comp[no_comp].value);
printf("Enter The Cost :\t");
scanf("%f",&comp[no_comp].cost);

}
else{
    printf("The Sr No %d not found",no_comp);
}
}
}

void append(struct components comp[],int *n){
    int i = *n;
    comp[i].sr_no=i+1;
    printf("Enter The Name of Component %d:\t",i+1);
    scanf("%s",comp[i].comp_name);
    printf("Enter The Symbol :\t");
    scanf(" %c",&comp[i].symbol);
    printf("Enter The Value :\t");
    scanf("%d",&comp[i].value);
    printf("Enter The Cost :\t");
    scanf("%f",&comp[i].cost);
    (*n)++;
}

void sort(struct components comp[],int n){
    struct components temp;
    for(int i=0;i<n;i++){
        for(int j=0;j<(n-1);j++){

```

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```

        if(comp[j].sr_no>comp[j+1].sr_no){
            temp = comp[j];
            comp[j]=comp[j+1];
            comp[j+1]=temp;
        }
    }
}

printf("The Database Is sorted ");
}

void search(struct components comp[],int n){
    int sel;
    printf("The Selection for search : 1.Sr.no\n2.Component
name\n3.Symbol(Upper Case)\n4.Value\n5.Cost\nEnter The Selection of
search :\t");
    scanf("%d",&sel);
    switch(sel){
        case 1 :{
            int key;
            printf("Enter the Sr.no to be searched : ");
            scanf("%d",&key);
            for(int i=0;i<n;i++){
                if(comp[i].sr_no==key){
                    printf("The sr.no %d found\n",key);
                    printf("\nSr.no\tComponent Name\tSymbol\tValue\tCost\n");
                    printf("\t%d\t\t%s\t\t%c\t%d\t\t%.2f\n", comp[i].sr_no,
comp[i].comp_name, comp[i].symbol, comp[i].value, comp[i].cost);
                }
            }
            printf("The sr.no %d not found",key);


```

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```

    break;
}
case 2 :{
    char keyname[20];
    printf("Enter the Component name to be searched: ");
    scanf("%s", keyname);
    int found = 0;
    for (int i = 0; i < n; i++) {
        if (strcmp(comp[i].comp_name, keyname) == 0) {
            printf("Component Found\n");
            printf("\nSr.no\tComponent Name\tSymbol\tValue\tCost\n");
            printf("%d\t\t%s\t\t%c\t%d\t\t%.2f\n", comp[i].sr_no,
comp[i].comp_name, comp[i].symbol, comp[i].value, comp[i].cost);
            found = 1;
            break;
        }
    }
    if (!found) {
        printf("Component Name %s not found\n", keyname);
    }
    break;
}
case 3:{
    char keysym;
    printf("Enter the symbol(upper case) to be searched : ");
    scanf(" %c",&keysym);
    for(int i=0;i<n;i++){
        if(comp[i].symbol==keysym){
            printf("The symbol found");
            printf("\nSr.no\tComponent Name\tSymbol\tValue\tCost\n");


```


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```

        display(comp,n);
        break;
    }
    case 3 :{
        append(comp,&n);
        break;
    }
    case 4 :{
        modify(comp,n);
        break;
    }
    case 5:{
        search(comp,n);
        break;
    }
    case 6 :{
        sort(comp,n);
        break;
    }
    case 7 :{
        printf("Exiting Program!");
        exit(0);
    }
    default:{
        printf("Invalid Operation!");
    }
}
}while(ch!=7);
}

```



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With Pointers:-

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

```
struct components {
    int sr_no;
    char comp_name[20];
    char symbol;
    int value;
    float cost;
};
```

```
void create(struct components *comp, int *n) {
    for(int i = 0; i < *n; i++) {
        printf("Enter The Sr.no :\t");
        scanf("%d", &(comp + i)->sr_no);
        printf("Enter The Name of Component %d:\t", i + 1);
        scanf("%s", (comp + i)->comp_name);
        printf("Enter The Symbol :\t");
        scanf(" %c", &(comp + i)->symbol);
        printf("Enter The Value :\t");
        scanf("%d", &(comp + i)->value);
        printf("Enter The Cost :\t");
        scanf("%f", &(comp + i)->cost);
    }
}
```

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```


void display(struct components *comp, int n) {
    printf("\nSr.no\tComponent Name\tSymbol\tValue\tCost\n");
    for(int i = 0; i < n; i++) {
        printf("\t%d\t\t%s\t\t%c\t\t%d\t\t%.2f\n",
            (comp + i)->sr_no,
            (comp + i)->comp_name,
            (comp + i)->symbol,
            (comp + i)->value,
            (comp + i)->cost);
    }
}

```

```

void modify(struct components *comp, int n) {
    int no_comp;
    printf("Enter the Sr no of component to modify: ");
    scanf("%d", &no_comp);
    for(int i = 0; i < n; i++) {
        if((comp + i)->sr_no == no_comp) {
            printf("Enter The Name of Component %d:\t", no_comp);
            scanf("%s", (comp + i)->comp_name);
            printf("Enter The Symbol :\t");
            scanf(" %c", &(comp + i)->symbol);
            printf("Enter The Value :\t");
            scanf("%d", &(comp + i)->value);
            printf("Enter The Cost :\t");
            scanf("%f", &(comp + i)->cost);
            return;
        }
    }
}

```

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```

    printf("The Sr No %d not found\n", no_comp);
}

void append(struct components *comp, int *n) {
    int i = *n;
    (comp + i)->sr_no = i + 1;
    printf("Enter The Name of Component %d:\t", i + 1);
    scanf("%s", (comp + i)->comp_name);
    printf("Enter The Symbol :\t");
    scanf(" %c", &(comp + i)->symbol);
    printf("Enter The Value :\t");
    scanf("%d", &(comp + i)->value);
    printf("Enter The Cost :\t");
    scanf("%f", &(comp + i)->cost);
    (*n)++;
}

void sort(struct components *comp, int n) {
    struct components temp;
    for(int i = 0; i < n; i++) {
        for(int j = 0; j < n - 1; j++) {
            if((comp + j)->sr_no > (comp + j + 1)->sr_no) {
                temp = *(comp + j);
                *(comp + j) = *(comp + j + 1);
                *(comp + j + 1) = temp;
            }
        }
    }
    printf("The Database is sorted\n");
}

```



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```

printf("Enter the Component name to be searched: ");
scanf("%s", keyname);
int found = 0;
for (int i = 0; i < n; i++) {
    if (strcmp((comp + i)->comp_name, keyname) == 0) {
        printf("Component Found\n");
        printf("\nSr.no\tComponent Name\tSymbol\tValue\tCost\n");
        printf("\t%d\t\t%s\t\t%c\t%d\t\t%.2f\n",
            (comp + i)->sr_no,
            (comp + i)->comp_name,
            (comp + i)->symbol,
            (comp + i)->value,
            (comp + i)->cost);
        found = 1;
        break;
    }
}
if (!found) {
    printf("Component Name %s not found\n", keyname);
}
break;
}

case 3: {
    char keysym;
    printf("Enter the symbol(upper case) to be searched: ");
    scanf(" %c", &keysym);
    int found = 0;
    for(int i = 0; i < n; i++) {
        if((comp + i)->symbol == keysym) {
            printf("The symbol found\n");


```

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```

printf("\nSr.no\tComponent Name\tSymbol\tValue\tCost\n");
printf("\t%d\t\t%s\t\t%c\t\t%d\t\t%.2f\n",
    (comp + i)->sr_no,
    (comp + i)->comp_name,
    (comp + i)->symbol,
    (comp + i)->value,
    (comp + i)->cost);
found = 1;
break;
}
}
if (!found) {
    printf("Symbol %c not found\n", keysym);
}
break;
}
case 4: {
    int key;
    printf("Enter the Value to be searched: ");
    scanf("%d", &key);
    int found = 0;
    for(int i = 0; i < n; i++) {
        if((comp + i)->value == key) {
            printf("The value %d found\n", key);
            printf("\nSr.no\tComponent Name\tSymbol\tValue\tCost\n");
            printf("\t%d\t\t%s\t\t%c\t\t%d\t\t%.2f\n",
                (comp + i)->sr_no,
                (comp + i)->comp_name,
                (comp + i)->symbol,
                (comp + i)->value,

```


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```

        printf("The cost %.2f not found\n", key);
    }
    break;
}
default: {
    printf("Invalid Search Selection\n");
}
}
}

int main() {
    struct components comp[100];
    int n = 0, ch;
    do {
        printf("\nOperation On Structures:\n 1.Create \n 2.Display \n 3.Append
\n 4.Modify \n 5.Search \n 6.Sort\n 7.Exit\nEnter the No of operation:\t");
        scanf("%d", &ch);

        switch(ch) {
            case 1: {
                printf("Enter the no of elements :\t");
                scanf("%d", &n);
                create(comp, &n);
                break;
            }
            case 2: {
                display(comp, n);
                break;
            }
            case 3: {

```


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```

        append(comp, &n);
        break;
    }
    case 4: {
        modify(comp, n);
        break;
    }
    case 5: {
        search(comp, n);
        break;
    }
    case 6: {
        sort(comp, n);
        break;
    }
    case 7: {
        printf("Exiting Program!\n");
        exit(0);
    }
    default: {
        printf("Invalid Operation!\n");
    }
}
} while(ch != 7);

return 0;
}

```

OUTPUT:

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Operation On Structures:

- 1.Create
- 2.Display
- 3.Append
- 4.Modify
- 5.Search
- 6.Sort
- 7.Exit

Enter the No of operation: **1**

Enter the no of elements: **2**

Enter The Sr.no : **1**

Enter The Name of Component 1: **Resistor**

Enter The Symbol : **R**

Enter The Value : **100**

Enter The Cost : **0.50**

Enter The Sr.no : **2**

Enter The Name of Component 2: **Capacitor**

Enter The Symbol : **C**


Enter The Value : **200**

Enter The Cost : **1.00**

Operation On Structures:

- 1.Create
- 2.Display
- 3.Append
- 4.Modify
- 5.Search
- 6.Sort
- 7.Exit

Enter the No of operation: **2**

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Sr.no	Component Name	Symbol	Value	Cost
1	Resistor	R	100	0.50
2	Capacitor	C	200	1.00

Operation On Structures:

- 1.Create
- 2.Display
- 3.Append
- 4.Modify
- 5.Search
- 6.Sort
- 7.Exit

Enter the No of operation: 3

Enter The Name of Component 3: Inductor

Enter The Symbol : L

Enter The Value : 150


Enter The Cost : 0.75

Operation On Structures:

- 1.Create
- 2.Display
- 3.Append
- 4.Modify
- 5.Search
- 6.Sort
- 7.Exit

Enter the No of operation: 2

Sr.no	Component Name	Symbol	Value	Cost
-------	----------------	--------	-------	------

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1	Resistor	R	100	0.50
2	Capacitor	C	200	1.00
3	Inductor	L	150	0.75

Operation On Structures:

- 1.Create
- 2.Display
- 3.Append
- 4.Modify
- 5.Search
- 6.Sort
- 7.Exit

Enter the No of operation: **1**

Enter the no of elements: **2**

Enter The Sr.no : **1**

Enter The Name of Component 1: **Diode**

Enter The Symbol : **D**

Enter The Value : **500**

Enter The Cost : **1.50**

Enter The Sr.no : **2**

Enter The Name of Component 2: **Transistor**


Enter The Symbol : **T**

Enter The Value : **300**

Enter The Cost : **2.00**

Operation On Structures:

- 1.Create
- 2.Display
- 3.Append
- 4.Modify

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5.Search

6.Sort

7.Exit

Enter the No of operation: 4

Enter the Sr no of component to modify: 2

Enter The Name of Component 2: MOSFET

Enter The Symbol : M

Enter The Value : 350

Enter The Cost : 2.50

Operation On Structures:

1.Create

2.Display

3.Append

4.Modify


5.Search

6.Sort

7.Exit

Enter the No of operation: 2

Sr.no	Component Name	Symbol	Value	Cost
1	Diode	D	500	1.50
2	MOSFET	M	350	2.50

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Operation On Structures:

- 1.Create
- 2.Display
- 3.Append
- 4.Modify
- 5.Search
- 6.Sort
- 7.Exit

Enter the No of operation: **1**

Enter the no of elements: **3**

Enter The Sr.no : **1**

Enter The Name of Component 1: **IC**

Enter The Symbol : **I**


Enter The Value : **600**

Enter The Cost : **10.50**

Enter The Sr.no : **2**

Enter The Name of Component 2: **Relay**

Enter The Symbol : **R**

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Enter The Value : 700

Enter The Cost : 3.20

Enter The Sr.no : 3

Enter The Name of Component 3: Resistor

Enter The Symbol : R

Enter The Value : 100

Enter The Cost : 0.30

Operation On Structures:

1.Create

2.Display

3.Append

4.Modify

5.Search

6.Sort

7.Exit

Enter the No of operation: 5

The Selection for search:

1.Sr.no

2.Component name

3.Symbol(Upper Case)

4.Value


5.Cost

Enter The Selection of search: 1

Enter the Sr.no to be searched: 2

The sr.no 2 found

Sr.no	Component Name	Symbol	Value	Cost
2	Relay	R	700	3.20

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Operation On Structures:

- 1.Create
- 2.Display
- 3.Append
- 4.Modify
- 5.Search
- 6.Sort
- 7.Exit

Enter the No of operation: **1**

Enter the no of elements: **4**

Enter The Sr.no : **3**

Enter The Name of Component 3: **Capacitor**

Enter The Symbol : **C**

Enter The Value : **200**

Enter The Cost : **0.50**

Enter The Sr.no : **1**

Enter The Name of Component 1: **Transistor**


Enter The Symbol : **T**

Enter The Value : **500**

Enter The Cost : **1.20**

Enter The Sr.no : **4**

Enter The Name of Component 4: **Diode**

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Enter The Symbol : D
 Enter The Value : 400
 Enter The Cost : 2.00
 Enter The Sr.no : 2
 Enter The Name of Component 2: Resistor
 Enter The Symbol : R
 Enter The Value : 100
 Enter The Cost : 0.30

Operation On Structures:

- 1.Create
- 2.Display
- 3.Append
- 4.Modify
- 5.Search
- 6.Sort
- 7.Exit

Enter the No of operation: 6


The Database Is sorted

Operation On Structures:

- 1.Create
- 2.Display
- 3.Append
- 4.Modify
- 5.Search
- 6.Sort
- 7.Exit

Enter the No of operation: 2

Sr.no	Component Name	Symbol	Value	Cost
-------	----------------	--------	-------	------

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1	Transistor	T	500	1.20
2	Resistor	R	100	0.30
3	Capacitor	C	200	0.50
4	Diode	D	400	2.00

Operation On Structures:

- 1.Create**
- 2.Display**
- 3.Append**
- 4.Modify**
- 5.Search**
- 6.Sort**
- 7.Exit**

Enter the No of operation: 1

Enter the no of elements: 2

Enter The Sr.no : 1

Enter The Name of Component 1: Resistor

Enter The Symbol : R

Enter The Value : 100

Enter The Cost : 0.50

Enter The Sr.no : 2

Enter The Name of Component 2: Inductor


Enter The Symbol : L

Enter The Value : 300

Enter The Cost : 2.00

Operation On Structures:

- 1.Create**
- 2.Display**
- 3.Append**
- 4.Modify**

	PUNE INSTITUTE OF COMPUTER TECHNOLOGY PUNE - 411043	
	Department of Electronics & Telecommunication	
	ASSESSMENT YEAR: 2024-2025	CLASS: SE
	SUBJECT: DATA STRUCTURES	
EXPT No:	LAB Ref: SE/2024-25/	Starting date:
	Roll No: 22203	Submission date:

5.Search

6.Sort

7.Exit

Enter the No of operation: 5

The Selection for search:

1.Sr.no

2.Component name

3.Symbol(Upper Case)

4.Value

5.Cost

Enter The Selection of search: 3

Enter the symbol(upper case) to be searched: C

Symbol C not found