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

struct employ
{
    int eid;
    char ename[100];
    char ead[1000];
    char edept[100];
    struct employ *next;
    struct employ *back;
};

struct employ *add()
{
    struct employ *ptr = (struct employ *)malloc(sizeof(struct
employ));

    printf("Enter the Employee ID\n");
    scanf("%d", &ptr->eid);
    fflush(stdout);
    printf("Enter the Employee Name\n");
    scanf("%s", ptr->ename);
    fflush(stdout);
    printf("Enter the Employee Address\n");
    scanf("%s", ptr->ead);
    fflush(stdout);
    printf("Enter the Employee Department\n");
    scanf("%s", ptr->edept);
    ptr->next = NULL;
    ptr->back = NULL;
    return ptr;
}

void join(struct employ *first, struct employ *now)
{
    first->next = now;
    now->back = first;
}

void search(struct employ *ptr)
{
    if (ptr == NULL)
    {
        printf("First enter something\n");
        return;
    }
    else
    {
        printf("The Employee Id %d\n", ptr->eid);
        printf("The Employee Name is %s\n", ptr->ename);
        printf("The Employee Address is %s\n", ptr->ead);
        printf("The Employee Department is %s\n", ptr->edept);
        if (ptr != NULL)
        {
            search(ptr->next);
        }
    }
}

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        return;
    }
}

/*while (ptr != NULL)
{
    printf("The Employee Id %d\n", ptr->eid);
    printf("The Employee Name is %s\n", ptr->ename);
    printf("The Employee Address is %s\n", ptr->ead);
    printf("The Employee Department is %s\n", ptr->edept);
    ptr = ptr->next;
}*/

int main()
{
    int n;

    struct employ *head = NULL;
    struct employ *first, *temp;
    printf("Enter the number of records\n");
    scanf("%d", &n);
    while (n--)
    {
        if (head == NULL)
        {
            head = add();
            first = head;
        }
        else
        {
            temp = add();
            join(first, temp);
            temp = first;
        }
    }
    while (1)
    {
        int c;
        printf("-----\n");
        printf("1.To add the details\n");
        printf("2.To print the deatils\n");
        printf("3.To Exit\n");
        printf("Enter your choice\n");
        scanf("%d", &c);
        if (c == 1)
        {
            if (head == NULL)
            {
                head = add();
                first = head;
            }
            else
            {
                temp = add();
                join(first, temp);
                temp = first;
            }
        }
    }
}

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    }  
    else if (c == 2)  
    {  
        search(head);  
    }  
    else  
    {  
        exit(0);  
    }  
}  
  
return 0;  
}
```