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DS Practical 1.2

Problem : Consider while having data for the restaurant stored in the array data structure. You are suppose to display menu for search, delete and update in the order numbers existed. Once the menu is displayed, depending on the choice of the input perform following operations :

- In case of search, ask the user to input the order number to be searched and display the result if order number is found in the data. Else display the data not found.
- In case of delete order, ask the user the order number to be deleted, if the data is found, then delete the data. Else display data not found.
- In case of update data, ask the user to enter the order number to be updated and changes in the data. Accordingly update the old value with the new value.

Code :

```c
#include <stdio.h>

int search(int ysl[], int n) {
 int ele;
 printf("\nEnter the data to search : ");
 scanf("%d", & ele);
 for (int i = 0; i < n; i++) {
  if (ysl[i] == ele) {
   printf("\n\tThe data is found at the order number %d ", i + 1);
   return 1;
  }
 }
 printf("\nData not found!!\n");
 return -1;
}
int Update(int ysl[], int size) {
 int ele, i, no;
 printf("\nEnter the data you want to update : ");
 scanf("%d", & ele);
```

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```
 printf("\n\tEnter the new order : ");
 scanf("%d", & no);
 for (i = 0; i < size; i++) {
  if (ysl[i] == ele) {
    ysl[i] = no;
    printf("\nModified Data : ");
    for (i = 0; i < size; i++) {
      printf("%d ", ysl[i]);
    }
    return 1;
  }
 }
 printf("\nData not found!!\n");
 return -1;
}
int Delete(int ysl[], int size) {
 int i, ele;
 printf("\nEnter the order to delete : ");
 scanf("%d", & ele);
 for (i = 0; i < size; i++) {
  if (ysl[i] == ele) {
    for (int j = i; j < size; j++) {
      ysl[j] = ysl[j + 1];
    }
    size--;
    printf("\nModified Data : ");
    for (i = 0; i < size; i++) {
      printf("%d ", ysl[i]);
    }
    return 1;
  }
 }
 printf("\nData not found!!!");
 return 0;
```

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```
}

int main() {
 int n, i;
 printf("--------------------------------------------------------------------");
 printf("\n\t\tEnter the number of orders : ");
 scanf("%d", & n);
 printf("--------------------------------------------------------------------");
 int ysl[n];
 printf("\n\t\tEnter data : ");
 for (i = 0; i < n; i++) {
  scanf("%d", & ysl[i]);
 }
 printf("--------------------------------------------------------------------");
 int choice;
 while (1) {
  printf("\n\nPress : ");
  printf("\n\t1.To search in the data");
  printf("\n\t2.To update the data");
  printf("\n\t3.To delete the data");
  printf("\n\t4.To exit");
  printf("\n\nEnter your choice : ");
  scanf("%d", & choice);
  int index;
  switch (choice) {
  case 1:
   search(ysl, n);
   break;
  case 2:
   Update(ysl, n);
   break;
  case 3:
   Delete(ysl, n);
   break;
```

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```
  case 4:
    return 0;
  default:
    printf("\nPlease enter some valid number");
  }
}
}
```

Output :