

Problem No:

Problem Name: Write a c program to copy an array using pointer.

Input

4

1 2 3 4

Output

Copied Array

1 2 3 4

Source code:

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

```
void copyArray(int *source, int *destination, int size) {  
    for (int i = 0; i < size; i++) {  
        *(destination + i) = *(source + i);  
    }  
}
```

```
int main() {  
    int size;  
    scanf("%d", &size);  
  
    int sourceArray[size];  
    int destinationArray[size];  
    for (int i = 0; i < size; i++) {  
        scanf("%d", &sourceArray[i]);  
    }  
    copyArray(sourceArray, destinationArray, size);  
    printf("Copied array:\n");  
    for (int i = 0; i < size; i++) {  
        printf("%d ", destinationArray[i]);  
    }  
}
```

```
    return 0;  
}
```

Result and Anaysis:

This program uses a void function to copy an array using pointer. When the subfunction is called in the main function then the result is shown.