Write a c program to stimulate the following file allocation strategies

a) sequential
b) indexed
c) linked

```
#include <stdio.h>
#include <stdlib.h>
#define MAX_BLOCKS 10

void sequentialAllocation(int blocks[], int total) {
printf("Sequential: ");     for (int i = 0; i < total; i++)
printf("%d -> ", blocks[i]);     printf("End\n");
}

void indexedAllocation(int index, int blocks[], int total)
{     printf("Indexed: Index Block %d -> [ ", index);
for (int i = 0; i < total; i++) printf("%d ", blocks[i]);
printf("]\n");
}

void linkedAllocation(int blocks[], int total) {
printf("Linked: ");     for (int i = 0; i < total; i++)
printf("%d -> ", blocks[i]);     printf("End\n");
}

int main() {     int blocks[MAX_BLOCKS], total,
choice, indexBlock;

   printf("Enter number of blocks (<=10): ");
   scanf("%d", &total);     printf("Enter block numbers: ");     for (int
i = 0; i < total; i++) scanf("%d", &blocks[i]);     printf("Choose
```

```
allocation: 1. Sequential  2. Indexed  3. Linked\n");     scanf("%d",
&choice);

   if (choice == 2) {         printf("Enter
index block number: ");         scanf("%d",
&indexBlock);
   }

   if (choice == 1) sequentialAllocation(blocks, total);     else if
(choice == 2) indexedAllocation(indexBlock, blocks, total);     else
if (choice == 3) linkedAllocation(blocks, total);     else
printf("Invalid choice!\n");

   return 0;
}
```

OUTPUT: