main.c

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```c
#include <stdio.h>
#define MAX 100
void firstFit(int blockSize[], int m, int processSize[], int n) {
    int allocation[MAX];
    for (int i = 0; i < MAX; i++)
        allocation[i] = -1;
    for (int i = 0; i < n; i++) {
        for (int j = 0; j < m; j++) {
            if (blockSize[j] >= processSize[i]) {
                allocation[j] = i;
                blockSize[j] -= processSize[i];
                break;
            }
        }
    }
    printf("Process No.\tProcess Size\tBlock no.\n");
    for (int i = 0; i < n; i++) {
        printf("%d\t\t%d\t\t", i + 1, processSize[i]);
        if (allocation[i] != -1)
            printf("%d\n", allocation[i] + 1);
        else
            printf("Not Allocated\n");
```

Output | Clear

```
Process No. Process Size    Block no.
1       212     Not Allocated
2       417     3
3       112     Not Allocated
4       426     Not Allocated


=== Code Execution Successful ===
```

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```c
#include <stdio.h>
#include <stdlib.h>
#include <fcntl.h>
#include <unistd.h>
#include <sys/types.h>
#include <sys/stat.h>
int main() {
    int fd;
    char *filename = "example.txt";
    char *text = "Hello, UNIX System Calls!\n";
    fd = open(filename, O_CREAT | O_WRONLY | O_TRUNC, S_IRUSR |
        S_IWUSR);
    if (fd == -1) {
        perror("Error opening file");
        exit(EXIT_FAILURE);
    }
    if (write(fd, text, sizeof(text)) == -1) {
        perror("Error writing to file");
        close(fd);
        exit(EXIT_FAILURE);
    }
    close(fd);
```

Output Clear

```
Error opening file: Permission denied


=== Code Exited With Errors ===
```

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