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main.c

Save Run

```c
#include <stdio.h>
int maxSum(int a[], int n) {
    int i, j, k;
    int sum, maxSum = 0;
    for (i = 0; i < n; i++) {
        for (j = i; j < n; j++) {
            sum = 0;
            for (k = i; k <= j; k++) {
                sum = sum + a[k];
            }
            if (sum > maxSum)
                maxSum = sum;
        }
    }
    return maxSum;
}

int main() {
    int i;
    int arr1[] = {9, 8, -5, 4, 6, -8, 5};
```

Output

Clear

```
/tmp/T5YwkWJ2tx.o
The given array is :  9  8  -5  4  6  -8  5
The largest sum of a contiguous subarray is : 22
```

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```
    } else {
        if (currentLength > maxLength) {
            maxLength = currentLength;
            start = i - maxLength;
        }
        currentLength = 1;
    }
}

if (currentLength > maxLength) {
    maxLength = currentLength;
    start = n - maxLength;
}

printf("Longest increasing subarray: ");
for (int i = start; i < start + maxLength; i++) {
    printf("%d ", arr[i]);
}
printf("\n");
}
```

Output Clear

```
/tmp/sMFZhrM31w.o
Enter an integer: 45
Roman numeral: XLV
```

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Output Clear

```c
#include <stdio.h>
int main(){

int stringToInteger(char* str) {
    int result = 0;
    int sign = 1;
    if (*str == '-') {
        sign = -1;
        str++;
    }
    while (*str != '\0') {
        if (*str >= '0' && *str <= '9') {
            result = result * 10 + (*str - '0');
        } else {
            return 0;
        }
        str++;
    }
    return sign * result;
}
```

```
/tmp/DvdtfDcBJ5.o
```

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Save Run

```
            next = arr[arr[i] - 1];
            arr[arr[i] - 1] = arr[i];
            arr[i] = next;
        }
    }
    for (i = 0; i < n; i++) {
        if (arr[i] != i + 1) {
            return i + 1;
        }
    }
    return n + 1;
}
int main() {
    int arr[] = {4, 5, 0, 2};
    int n = sizeof(arr) / sizeof(arr[0]);
    int result = smallestMissingPositive(arr, n);
    printf("Smallest missing positive integer is: %d\n",
        result);
    return 0;
}
```

Output Clear

```
/tmp/7K5js7VFXm.o
Smallest missing positive integer is: 1
```

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main.c

Save

Run

```c
#include <stdio.h>
void swap(int *ptr1, int *ptr2) {
    int temp = *ptr1;
    *ptr1 = *ptr2;
    *ptr2 = temp;
}
int main() {
    int a = 5, b = 8;
    printf("Before swapping: a = %d, b = %d\n", a, b);
    swap(&a, &b);
    printf("After swapping: a = %d, b = %d\n", a, b);
    return 0;
}
```

Output

Clear

```
/tmp/ucZ1alRTK0.o
Before swapping: a = 5, b = 8
After swapping: a = 8, b = 5
```

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High winds soon

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main.c

Save

Run

Output

Clear

```c
#include <stdio.h>
int stringLength(char *str) {
    char *ptr = str;
    while (*ptr != '\0') {
        ptr++;
    }
    return ptr - str;
}
int main() {
    char str[] = "Hello, World";
    int length = stringLength(str);
    printf("Length of the string: %d\n", length);
    return 0;
}
```

```
/tmp/cOPCNKO1c7.o
Length of the string: 12
```

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main.c

Save Run

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

void reverseString(char* str) {
    int length, i;
    char* begin_ptr, *end_ptr, ch;

    length = strlen(str);
    begin_ptr = str;
    end_ptr = str + length - 1;

    for (i = 0; i < (length - 1) / 2; i++) {
        ch = *end_ptr;
        *end_ptr = *begin_ptr;
        *begin_ptr = ch;
        begin_ptr++;
        end_ptr--;
    }
}

```

Output

Clear

```
/tmp/ctXnLUXzVQ.o
Enter a string: sai
Reverse of the string: ias
```

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