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#include <stdio.h>
#include <limits.h>

int main() {
    int n;
    printf("Enter the number of positive integers: ");
    scanf("%d", &n);

    int arr[n];
    int count[10001] = {0}; // Assuming the integers are in the range 1 to 10000

    printf("Enter %d positive integers: ", n);
    for(int i = 0; i < n; i++) {
        scanf("%d", &arr[i]);
        count[arr[i]]++;
    }

    int min_count = INT_MAX;
    int result = INT_MAX;
    for(int i = 0; i < n; i++) {
        if(count[arr[i]] < min_count || (count[arr[i]] == min_count && arr[i] < result)) {
            min_count = count[arr[i]];
            result = arr[i];
        }
    }

    printf("The integer that appears the least number of times is: %d\n", result);
    return 0;
}

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2) #include <stdio.h>
#include <string.h>

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void reverse_substring(char *str, int n1, int n2) {
    while(n1 < n2) {
        char temp = str[n1];

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        str[n1] = str[n2];
        str[n2] = temp;
        n1++;
        n2--;
    }
}

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int main() {
    char str[100];
    int n1, n2;

    printf("Enter a string: ");
    scanf("%s", str);

    printf("Enter two integers (n1 and n2): ");
    scanf("%d %d", &n1, &n2);

    reverse_substring(str, n1, n2);

    printf("The modified string is: %s\n", str);
    return 0;
}

```

3) #include <stdio.h>

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int main() {
    int a, b, c;
    printf("Enter three integers: ");
    scanf("%d %d %d", &a, &b, &c);

    int first, second;

    if(a > b) {
        first = a;
        second = b;
    } else {
        first = b;

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        second = a;
    }

    if(c > first) {
        second = first;
        first = c;
    } else if(c > second) {
        second = c;
    }

    printf("The second largest number is: %d\n", second);
    return 0;
}

```

4) #include <stdio.h>
#include <stdbool.h>

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bool is_within_10_of_100_or_200(int n) {
    return (abs(100 - n) <= 10 || abs(200 - n) <= 10);
}

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int main() {
    int num;
    printf("Enter an integer: ");
    scanf("%d", &num);

    if(is_within_10_of_100_or_200(num)) {
        printf("True\n");
    } else {
        printf("False\n");
    }

    return 0;
}

```

5)

#include <stdio.h>

int main() {

