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main.c

main.c | Save | Run

```c
#include <stdio.h>
void sort(int *arr, int n) {
    int *i, *j, temp;
    for (i = arr; i < arr + n - 1; i++) {
        for (j = i + 1; j < arr + n; j++) {
            if (*i > *j) {
                temp = *i;
                *i = *j;
                *j = temp;
            }
        }
    }
}
int main() {
    int arr[] = {28, 21, 14, 7};
    int n = sizeof(arr) / sizeof(arr[0]);
    int *ptr = arr;
    sort(ptr, n);
    printf("Sorted array: \n");
    for (int i = 0; i < n; i++) {
        printf("%d ", *(ptr + i));
    }
    printf("\n");
    return 0;
}
```

Output

```
/tmp/a.out
Sorted array:
7 14 21 28
```

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main.c

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```c
#include <stdio.h>
void factorial(int num, unsigned long long
*result) {
    *result = 1;
    for (int i = 1; i <= num; i++) {
        *result *= i;
    }
}
int main() {
    int num;
    unsigned long long fact = 1;
    printf("Enter a number: ");
    scanf("%d", &num);
    factorial(num, &fact);
    printf("Factorial of %d = %llu\n", num, fact);
    return 0;
}
```

Output

```
/tmp/a.out
Enter a number: 5
Factorial of 5 = 120
```

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main.c

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```c
#include <stdio.h>
int is_prime(int num) {
    if (num <= 1) {
        return 0;
    }
    for (int i = 2; i * i <= num; i++) {
        if (num % i == 0) {
            return 0;
        }
    }
    return 1;
}
int main() {
    int num;
    printf("Enter a number: ");
    scanf("%d", &num);
    if (is_prime(num)) {
        printf("%d is a prime number.\n", num);
    } else {
        printf("%d is not a prime number.\n",
        num);
    }
    return 0;
}
```

Output

```
/tmp/a.out
Enter a number: 527
527 is not a prime number.
```

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main.c

main.c | Save | Run

```c
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
void concat(char *s1, const char *s2) {
    while (*s1) {
        s1++;
    }
    while (*s2) {
        *s1 = *s2;
        s1++;
        s2++;
    }
    *s1 = '\0';
}
int main() {
    char s1[100], s2[50];
    printf("Enter the first string: ");
    scanf("%s", s1);
    printf("Enter the second string: ");
    scanf("%s", s2);
    concat(s1, s2);
    printf("Concatenated string: %s\n", s1);
    return 0;
}
```

Output

```
/tmp/a.out
Enter the first string: 05
Enter the second string: 08
Concatenated string: 0508
```

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