

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

```
int gcd (int m, int n)
```

```
{ int r;
```

```
do {
```

```
    r = m % n;
```

```
    m = n;
```

```
    n = r;
```

```
    return r;
```

```
} while (n != 0);
```

```
}
```

```
int main()
```

```
{
```

```
    int m, n, res;
```

```
    printf ("Enter m and n\n");
```

```
    scanf ("%d %d", &m, &n);
```

```
    res = gcd (m, n);
```

```
    printf ("The GCD is %d", res);
```

```
}
```