

```
>> A=randn(100,3);  
>> [Q,R]=mgs(A);  
>> norm(A-Q*R)
```

```
ans =
```

```
1.2365e-15
```

```
>> norm(Q'*Q-eye(3))
```

```
ans =
```

```
2.4147e-16
```

```
>> norm(tril(R,-1))
```

```
ans =
```

```
0
```

```
>>
```