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```
clc;
```

Least Square Filter

```
fprintf('Response of the Least Square Filter\n');
ECE569Project(b,[1],(Mls-1)/2,'clean');
ECE569Project(b,[1],(Mls-1)/2,'noise');
ECE569Project(b,[1],(Mls-1)/2,'interferer');
ECE569Project(b,[1],(Mls-1)/2,'both');
```

Remez Algorithm

```
fprintf('Response of the Optimum Equiripple\n');
ECE569Project(b1,[1],(M-1)/2,'clean');
ECE569Project(b1,[1],(M-1)/2,'noise');
ECE569Project(b1,[1],(M-1)/2,'interferer');
ECE569Project(b1,[1],(M-1)/2,'both');
```

Butterworth

```
fprintf('Response for the Butterworth filter\n');
z=25;
ECE569Project(b2,a2,z,'clean');
ECE569Project(b2,a2,z,'noise');
ECE569Project(b2,a2,z,'interferer');
ECE569Project(b2,a2,z,'both');
```

Chebyshev

```
fprintf('Response for the Chebyshev type 2 filter\n');
y=6;
ECE569Project(b3,a3,y,'clean');
ECE569Project(b3,a3,y,'noise');
ECE569Project(b3,a3,y,'interferer');
ECE569Project(b3,a3,y,'both');
```

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