

```
function out = Filter(img,filter_num)
```

```
    if filter_num == 1
```

```
        out = Filter_Oil(img);
```

```
    end
```

```
    if filter_num == 2
```

```
        out = Filter_wall(img);
```

```
    end
```

```
    if filter_num == 3
```

```
        out = Filter_Glass(img);
```

```
    end
```

```
    if filter_num == 4
```

```
        out = Filter_BW(img);
```

```
    end
```

```
    if filter_num == 5
```

```
        out = Filter_Plain(img);
```

```
    end
```

```
    if filter_num == 6
```

```
        out = Filter_Old(img);
```

```
    end
```

```
end
```

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