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## Lab 7 Jesse Layman SID: 861135479

```
% Professor: Ertem Tuncel,  
% TA: Ceren Sevinc,  
% EE141-022
```

### Step 1

```
close all  
clear all  
N = 10;
```

### Step 2

```
A = 0:511;  
for k = 1:512  
    if k <= 64 || k >= 446;  
        A(k) = 1;  
    else  
        A(k) = 0;  
    end  
end
```

### Step 3

```
g = ifft(A.*exp(-j*pi*k*N/512));
```

### Step 4

```
h = [g(1:N+1) zeros(1,511-N)];
```

### Step 5

```
H = fft(h);
```

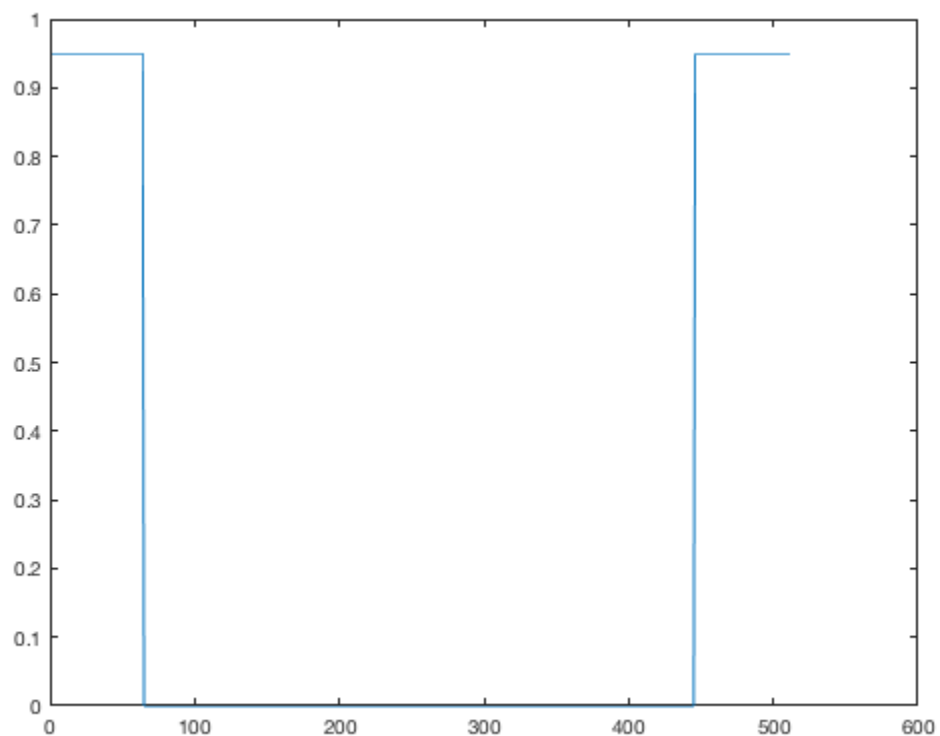
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## Step 6

```
B = H.*exp(j*pi*k*N/512);  
B = real(B);
```

## Step 7

```
for k = 1:512  
    if k <= 64 || k >= 446;  
        if B(k) >= 0.95 && B(k) <= 1  
            A(k) = B(k);  
        elseif B(k) > 1;  
            A(k) = 1;  
        elseif B(k) < 0.95  
            A(k) = 0.95;  
        end  
    end  
end  
plot(abs(A));
```



2)