

```
function y=question2(v,u)
u=unique(u);
v=unique(v);
y= length(unique([u;v]))==length(v);
end
```

```
function question3(x,y);
n=length(x);
q=log(y./(1-y));
coef=pinv([ones(n,1),x])*q;
v=linspace(min(x)-1,max(x)+1,100);
p=@(x) 1./(1+exp(-coef(1)-coef(2)*x));
plot(x,y, 'o',v,p(v));
end
```

```
function y=question4(n)
y=[];
for i=1:n
    if n/i==round(n/i)
        y=[y;i];
    end
end
```

**end**

**end**

**end**

**function** y=question5(n)

y=[];

i=1;

**while** n>0

    y(i)=mod(n,10);

    n=floor(n/10);

    i=i+1;

**end**

y=fliplr(y);

**end**