```
clc
A = [1 3 3;2 6 3;3 9 2]
```

```
A = 3×3
     1     3     3
     2     6     3
     3     9     2
```

```
B = rref(A)
```

```
B = 3×3
     1     3     0
     0     0     1
     0     0     0
```

```
x = A(:,1);
y = A(:,2);
z = A(:,3);
calc_Dependent_x_y = rank([x,y])==rank(x)
```

```
calc_Dependent_x_y = logical

   1
```

```
calc_Dependent_x_z = rank([x,z])==rank(x)
```

```
calc_Dependent_x_z = logical

   0
```

```
calc_Dependent_y_z = rank([y,z])==rank(y)
```

```
calc_Dependent_y_z = logical

   0
```

```
if calc_Dependent_x_y == 0
    if calc_Dependent_x_z == 0
        C = [x y z]
    else
        C = [x y]
    end
elseif calc_Dependent_x_z == 0
    C = [x z]
end
```

```
C = 3×2
     1     3
     2     3
     3     2
```

```
r = B(any(B,2),:);
R = transpose(r)
```

```
R = 3×2
     1     0
     3     0
```

```
     0     1
```

```
D = C*r
```

```
D = 3×3
     1     3     3
     2     6     3
     3     9     2
```

```
if D == A
    disp('A = CR, Checked')
else
    disp('wrong answer')
end
```

```
A = CR, Checked
```