## Step-1

We have to find two points on the line of intersection of the three planes t = 0, z = 0, and x + y + z + t = 1 in four dimensional space.

## Step-2

Substituting t = 0, z = 0 in x + y + z + t = 1, we get

$$x + y = 1$$

By letting y = 0 in x + y = 1 gives x = 1 then the solution becomes (1,0,0,0)

By letting x = 0 in x + y = 1 gives y = 1 then the solution becomes (0,1,0,0)

Therefore the two solutions are (1,0,0,0) and (0,1,0,0).