

```

> nb_points_fixes:=proc(t)
  global n;
  local nbre,i;
  nbre:=0;
  for i from 0 to n-1 do
    if t[i]=i then
      nbre:=nbre+1
    fi;
  od;
  return nbre;
end:
> n:=5:t1:=array(0..4,[4,3,2,2,4]):
> nb_points_fixes(t);nb_points_fixes(t1);
                                0
                                2
> itere:=proc(t,x,k)
  local iter,i;
  iter:=x;
  for i from 1 to k do
    iter:=t[iter]
  od;
  return iter;
end:
> seq(itere(t1,1,k),k=0..4);
                                1,3,2,2,2
> nb_points_fixes_iteres:=proc(t,k)
  global n;
  local nbre,i;
  nbre:=0;
  for i from 0 to n-1 do
    if itere(t,i,k)=i then
      nbre:=nbre+1
    fi;
  od;
  return nbre;
end:
> seq(nb_points_fixes_iteres(t1,k),k=0..4);
                                5,2,2,2,2
> pgcd_points_fixes:=proc(t)
  global n;
  local pt,i;
  pt:=1;
  i:=1;
  while t[pt]<>pt do
    pt:=t[pt]
  end:

```

```
od;  
return pt;  
end:  
[ > t:=array(0..9,[0,2,4,6,4,8,0,2,0,6]):  
[ > pgcd_points_fixes(t);
```