

```
function [s,x, r]=eulersolve(s,x,r, lambdasolve, gammasolve);  
%This file calculates the euler iteration for the solver.  
  
%Calculations for the variable susceptible  
ds=-lambdasolve.*s;  
  
%Calculations for the variable infectious  
dx=-gammasolve.*x + lambdasolve.*s;  
  
%Calculations for the variable recovered  
dr=gammasolve.*x;  
  
%Calculating f(t)=f(t-1)+df  
x=x+dx;  
  
s=s+ds;  
  
r=r+dr;  
  
end
```