```matlab
function f=simpMut(t, class, N, beta, nu, b, D, mu, a);

S=class(1);
I_1=class(2);
I_2=class(3);
I_n=class(4);
R=class(5);

%dMax=1;
%det=dMax * exp(-k * a);
%k loop here

% f(1,1)= -beta*S*(I_1 + I_2 + I_n) + b - D*S; %  Susceptible
% f(2,1)= beta*S*I_1 - (nu + detection(0,a) + mu + D)*I_1; %  Strain
 I1
% f(3,1)= beta*S*I_2 - (nu + detection(1,a) + mu + D)*I_2 + mu*I_1;
 %Strain I2
% f(4,1)= beta*S*I_n - (nu + detection(2,a) + D)*I_n + mu*I_2; %
 Strain In
% %f(5,1)= (nu + detection(3,a))*(I_1 + I_2 +I_n) - D*R; %  Recovered
% f(5,1)= -D*R + ((nu + detection(0,a))*I_1) + ((nu +
 detection(1,a))*I_2) + ((nu + detection(2,a))*I_n);%  Recovered
% %end k loop here

f(1,1)= -beta*S*(I_1 + I_2 + I_n) + b*(I_1+I_2+I_n+S+R) -D*S; %
 Susceptible
f(2,1)= beta*S*I_1 - (nu + detection(0,a) + mu +D)*I_1; %  Strain I1
f(3,1)= beta*S*I_2 - (nu + detection(1,a) + mu +D)*I_2 +
 mu*I_1; %Strain I2
f(4,1)= beta*S*I_n - (nu + detection(2,a) +D)*I_n + mu*I_2; % Strain
 In
%f(5,1)= (nu + detection(3,a))*(I_1 + I_2 +I_n) - D*R; %  Recovered
f(5,1)= -D*R + ((nu + detection(0,a))*I_1) + ((nu +
 detection(1,a))*I_2) + ((nu + detection(2,a))*I_n);%  Recovered
%end k loop here
end
```

Not enough input arguments.

Error in simpMut (line 3)
S=class(1);

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