function mutpop=mutation(mutpop,pop,nvar,nmut)

npop=length(pop);

for n=1:nmut

i=randi([1 npop]);

p=pop(i).pos;

j1=randi([1 nvar-1]);

j2=randi([j1+1 nvar]);

nj1=p(j1);

nj2=p(j2);

p(j1)=nj2;

p(j2)=nj1;

mutpop(n).pos=p;

mutpop(n).cost=fitness(p,nvar);

end

end