

```
function [result]=fc4(q,x,y)
% test vectors, exs.:
% x=[1:10]; y=x; q=x;
% --> result = -1.3168e+13
% x=ones(1,10); y=x; q=x;
% --> result = 35
N=length(x);
M=length(q);
S=0;
for i=1:N-1
    S=S+(x(i)+3*y(i+1));
end
P=1;
for i=1:M
    P=P*(q(i)*q(i));
end
result = S-P;

end
```