Alternative 1

//read an : 1 to n

if (a2-a1) > (a3-a2) then

high🡨(a2-a1)

sec\_high🡨 (a3-a2)

elseif (a2-a1)=(a3-a2) then

high🡨(a2-a1)

sec\_high🡨0

else

high🡨(a3-a2)

sec\_high🡨 (a2-a1)

for i🡨 4 to n do

if (ai-ai-1)>sec\_high then

if (ai-ai-1) <high then

sec\_high🡨 (ai-ai-1)

elseif (ai-ai-1)>high then

sec\_high🡨high

high🡨 (ai-ai-1)

if sec\_high=0

print ‘all elements are equal’

else

print sec\_high ,‘is the second highest.’

Alternative 2

high🡨0

sec\_high🡨0

for i🡨 2 to n do

if (ai-ai-1)>sec\_high then

if (ai-ai-1) <high then

sec\_high🡨 (ai-ai-1)

elseif (ai-ai-1)>high then

sec\_high🡨high

high🡨 (ai-ai-1)