

1.1 컴퓨터적 사고

소프트웨어적 사고의 순서

$interval \leftarrow 1$

$S \leftarrow 0$

$error \leftarrow 0$

while ($interval \leq 100$) do.

$n \leftarrow 1$

while ($n \leq interval$) do.

$delta\ x \leftarrow (x_n - x_0) / interval$

$height = x_0 + (n-1) \cdot delta\ x$

$S \leftarrow S + delta\ x + height$

$height = (x_n + (n-1) \cdot delta\ x) + (x_0 + n \cdot delta\ x)$
 $= \underbrace{delta\ x}_{(1)}$

$width = delta\ x$

$error_2 = height \times width / 2$

$error \leftarrow error + error_2$

endwhile.

if $-0.05 \leq error \leq 0.05$ then

write "반경, 직육면체, 면적", $interval$, S , $error$.

stop

else

$interval \leftarrow interval + 1$

$S \leftarrow 0$

$error \leftarrow 0$

endwhile

stop.

