```
\begin{aligned} & \textbf{for } i = 2 \textbf{ to } n \\ & key = A[i] \\ & j = i+1 \\ & \textbf{while } j < n+1 \text{ and } A[j] > key \\ & A[j-1] = A[j] \\ & j = j+1 \\ & A[j-1] = key \end{aligned}
```