

$\{ m \geq 1 \}$

$i = 1; m = a[0];$

$\{ \underline{m = \min a[0..i-1]} \wedge i \leq m \wedge i = 1 \wedge m \geq 1 \}$

while $(i < m)$ {

$\{ \underline{m = \min a[0..i-1]} \wedge i < m \wedge m \geq 1 \}$

if $(a[i] < m)$ {

$m = a[i];$

}

$\{ m = \min a[0..i] \wedge i < m \wedge m \geq 1 \}$

$i = i + 1;$

$\{ \underline{m = \min a[0..i-1]} \wedge i \leq m \wedge m \geq 1 \}$

}

$\{ \underline{m = \min a[0..i-1]} \wedge i \leq m \wedge m \geq 1 \wedge \frac{i \geq m}{\neg C} \}$

$m = \min a[0..i-1] \wedge \underline{i \leq m} \wedge \underline{i \geq m}$

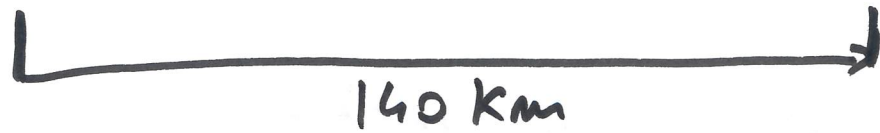
$m = \min a[0..i-1] \wedge i = m \wedge m \geq 1$

$\boxed{m = \min a[0..m-1]} \wedge m \geq 1$

$$1 \text{ GB} = 2^{30} \text{ B}$$

viaggiare 70 km/h

distanza 140 km



$$\text{Tempo} = 2 \text{ h} = \frac{140 \text{ km}}{70 \text{ km/h}} = 2 \text{ h}$$

$$\begin{aligned} \text{Bande} &= \frac{2^{30} \text{ B}}{2 \text{ h}} = \frac{2^{30} \text{ B}}{2 \times 60 \times 60 \text{ s}} = 149130 \text{ B/s} \\ [\text{Bande}] = [\text{B/s}] & \approx 149 \text{ KB/s} \end{aligned}$$

$$\text{Latency: } 20 \times 10^{-3} \text{ s}$$

$$\text{Bandw: } 1024 \times 1024 \text{ B/s}$$

$$\text{Dim. : } 100 \times 1024 \text{ B}$$

$$x = a + b$$

$$= 20 \times 10^{-3} \text{ s} +$$

$$b = \frac{100 \times 1024 \text{ B}}{1024 \times 1024 \text{ B/s}} = \frac{100}{1024} \text{ s}$$

$$x = 20 \times 10^{-3} \text{ s} + \frac{100}{1024} \text{ s} = 0.02 + 100/1024 = 0.1176 \text{ s}$$
$$= 117.6 \text{ ms}$$

