

- Buffer capacity: $n = 4$
- No. of samples: $m = 2$
- Prob range: $0 - 0.85, 0.86 - 1.7$
- Sample search with
 - $V1 = 0.7 \rightarrow$
 - $V2 = 1.2 \rightarrow$

$$V1 = 0.7 < 1.7$$

$$V2 = 1.2 < 1.7$$

PI: parent index
 LCI: Left child index
 RCI: Right Child index
 LI: Leaf index
 DI: Data index

$$V1 = 0.7 < 0.8$$

$$V2 = 1.2 > 0.8$$

$$V2 = 1.2 - 0.8 = 0.4$$

$$PI = RCI = 2$$

$$V1 = 0.7 > 0.5$$

$$V1 = 0.7 - 0.5 = 0.2$$

$$PI = RCI = 4 = LI$$

$$DI = LI - n + 1 = 1 = D1$$

