Example: Let $d = 3$, $s = 7$, control points $P_0, \dots, P_7$, and knot sequence $\mathbf{t} = \{0, 1, 2, \dots, 11\}$. Then the basic interval is $[t_d, t_{N-d}] = [3, 8]$. Let's compute the midpoint of this interval: $t = 5.5 = \frac{11}{2}$.

For $t = 5.5 = \frac{11}{2}$, we have $J = 5$.

Stages: $p = 0, 1, 2, 3$

For each stage we have $i = J - d + p, \dots, J$, so we get:

$p = 0$: $i = 2, 3, 4, 5$

$p = 1$: $i = 3, 4, 5$

$p = 2$: $i = 4, 5$

$p = 3$: $i = 5$

Stage $p = 0$: $P_2^0 = P_2$, $P_3^0 = P_3$, $P_4^0 = P_4$, $P_5^0 = P_5$.

Stage $p = 1$: Computing the various parts of the recursive formula, we have:

$t = \frac{11}{2}$, $t_i = i$, $i + d - (p-1) = i + 3$, $t_{i+d-(p-1)} - t_i = i + 3 - i = 3$, so

$$P_i^{[1]} = \frac{\frac{11}{2} - i}{3} P_i^{[0]} + \frac{i + 3 - \frac{11}{2}}{3} P_{i-1}^{[0]}, \quad \text{which gives:} \quad P_3^{[1]} = \frac{5}{6} P_3^{[0]} + \frac{1}{6} P_2^{[0]},$$

$$P_4^{[1]} = \frac{1}{2} P_4^{[0]} + \frac{1}{2} P_3^{[0]}, \quad \text{and} \quad P_5^{[1]} = \frac{1}{6} P_5^{[0]} + \frac{5}{6} P_4^{[0]}.$$

Stage $p = 2$: Computing the various parts of the recursive formula, we have:

$t = \frac{11}{2}$, $t_i = i$, $i + d - (p-1) = i + 2$, $t_{i+d-(p-1)} - t_i = i + 2 - i = 2$, so

$$P_i^{[2]} = \frac{\frac{11}{2} - i}{2} P_i^{[1]} + \frac{i + 2 - \frac{11}{2}}{2} P_{i-1}^{[1]}, \quad \text{which gives:} \quad P_4^{[2]} = \frac{3}{4} P_4^{[1]} + \frac{1}{4} P_3^{[1]},$$

$$\text{and} \quad P_5^{[2]} = \frac{1}{4} P_5^{[1]} + \frac{3}{4} P_4^{[1]}.$$

Stage $p = 3$: Computing the various parts of the recursive formula, we have:

$t = \frac{11}{2}$, $t_i = i$, $i + d - (p-1) = i + 1$, $t_{i+d-(p-1)} - t_i = i + 1 - i = 1$, so

$$P_i^{[3]} = \frac{\frac{11}{2} - i}{1} P_i^{[2]} + \frac{i + 1 - \frac{11}{2}}{1} P_{i-1}^{[2]}, \quad \text{which gives:} \quad P_5^{[3]} = \frac{1}{2} P_5^{[2]} + \frac{1}{2} P_4^{[2]}.$$