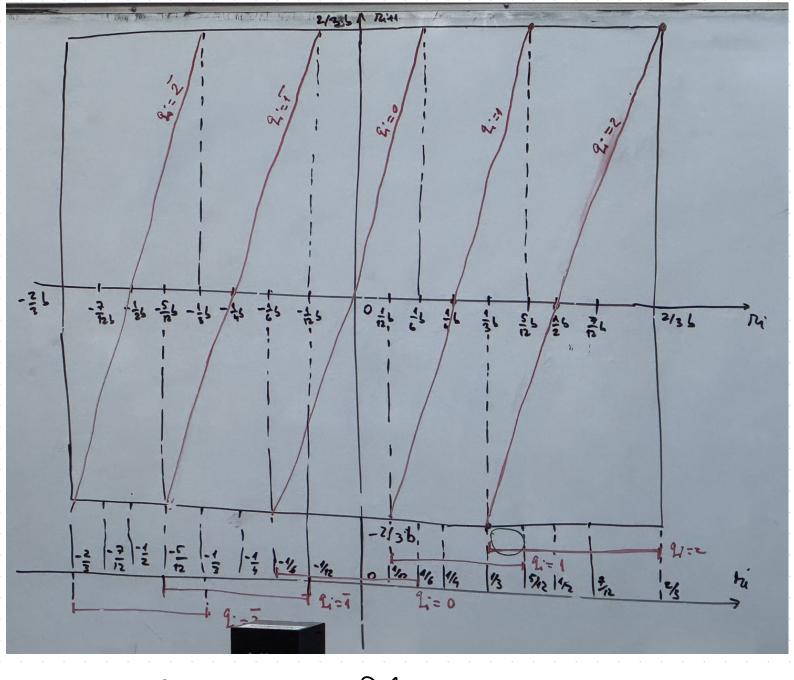
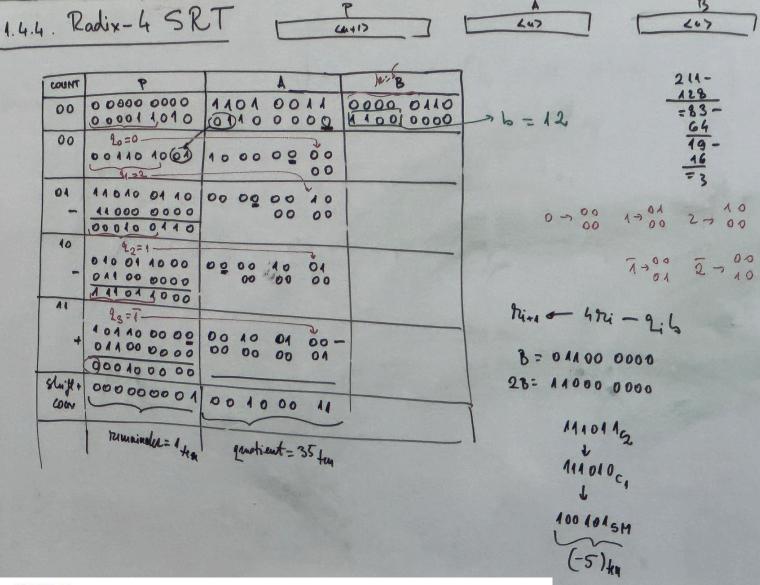


1.4.4. Radix-4 SRT

1aclix 2 111 = 21, - 2, b 2, € } 1, 0, 1) 1:+1 = 41 - 9.6 nodix 4 $2; e \{ \overline{2}, \overline{1}, 0, 1, 2 \}$ then | Nita | < 6 f 12,126 43-9,3 < 6 1 = 6 -s 2 > 25 Constraints: $|n_1| < \frac{2}{3}$ >> /4+1) < \frac{2}{3} 6 $4.\frac{2}{3}2-2$ $\Lambda_i = \frac{2}{3}b$ $\frac{8-6}{3}b \leq \frac{2}{3}b$





SRT-4

Ь	Range of P		9	ь	Range of P		9
8	-12	- 7	-2	12	-18	-10	-2
8	-6	-3	-1	12	-10	-4	-1
8	-2	1	0	12	-4	3	0
8	2	5	1	12	3	9	1
8	6	11	2	12	9	17	2
9	-14	-8	-2	13	-19	-11	-2
9	-7	-3	-1	13	-10	-4	-1
9	-3	2	0	13	-4	3	0
9	2	6	1	13	3	9	1
9	7	13	2	13	10	18	2
10	-15	-9	-2	14	-20	-11	-2
10	-8	-3	-1	14	-11	-4	-1
10	-3	2	0	14	-4	3	0
10	2	7	1	14	3	10	1
10	8	14	2	14	10	19	2
11	-16	-9	-2	15	-22	-12	-2
11	-9	-3	-1	15	-12	-4	-1
11	-3	2	0	15	-5	4	0
11	2	8	1	15	3	11	1
11	8	15	2	15	11	21	2

211 6 3 30 = 1	ī5
213 5 20 3 43 20 3 43 213 - 10 - 3 213 - 16 - 16 - 5	111 000c, 1100 1115M (-7)tu

COUNT	P	1	8	
00	0000 0000	101010101	1010 0000	b = (10) ten
00	00110 1010	10000001		
-	04040 0000	00		B= 01010 0000
01	20=1	~		
+	01010 1010	00 00 01 00		
10	2/=1-	+		
+	01010 1000	00 01 00 00		ent.
44	12=1-	21 22 22		p :
+	04040 0000	01 00 00 00		
42+	040400000	01 00 00 00 -		
Shift +		00101010		
CONV	1 remainder = (3) to	quotient = (42) +44		

2. Computer System Performance
2.1 Intro 4 1. besktop Comp. 2. Servers 3. Embedded Systems Time Time
2 Servers 3. Embedded Systems Time
Performance Time Space) Tenengy (Power) Dependability
Memory (Space) France (Power)
Dependa bo, lity
besktop -> Run Time
Server - Throughput
Embedded :> " comporters as components
-> Real Time Systems (marsino de perf> Deodline) Monot Case Scenario
1 CPU and 10 Tasks (Seg.)
a) faster processor -> faster run time
implicit si throughput
b) add a 2nd processor -> better throughput
Implicit 7: run teme

Performance x = Exectime × as n times faster than My Machine X Perf. X = Exectome y = M

Perf. Y = Exec. time X 2.2. Benchmark Suites spec.org - Synthetic Benchmarks (xnong tests - Toy Programs transitive !!! if A > B and B > $C \Rightarrow A > C$ i: 1, m programs SPEC = VIII Exec! I Mazino de referenta SPECX = VIII Perf. x Perf. Ref Exec Refi Exec X;