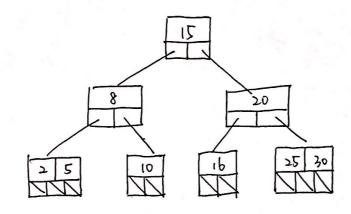
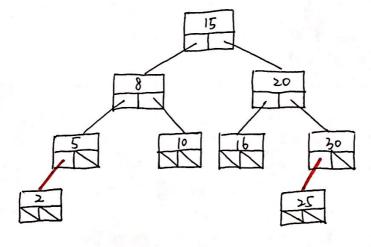
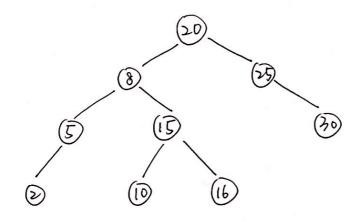


2-3 Tree



Left-leaning Red Black Tree





String	Formula	Hash Code	Mod 31	Index
"hello"	104×314+101×313+108×312+108×31+111×31	99162322	18	0
"hEllo"	104 × 314 + 69 × 313 + 108 × 312 + 108 × 31' + 111 × 31°	98209010	18	1
"hello"	104 × 314 + 101 × 313 + 76 × 313 + 108 × 311 + 111 × 310	99131570	18	2
"hello"	104 x314+101 x313+108x313+76x311+111 x310	99161330	18	3
"HellO"	72 ×314 + 101 ×313 + 108 ×312 + 108 ×311 + 79 ×310	69609618	17	4
"hELLO"	104 × 314+69 × 313+76 × 312+76×314+79×318	98177234	17	5
"HeLLO"	72 ×314+101×313+76×31+76×31+79×31	69577874	17	6
"HEILO"	72 × 314 + 69 ×313 + 108 ×312+76 ×31' +79×31°	68 65 5314	17	7
"HELIO"	72 × 314 + 69 × 313 + 76 × 312 + 108 × 31 + 79 × 319	68625554	17	8
"hELLO"	104 x 314 +69 x 313 +76 x 312 +76 x 31 + 111 x 31	98177266	18	9

Number of collisions: 8
18 appeared I times and 17 appeared 5 times.