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Csc-17C (42475)

Hash Investigation

Hashing Proofs

1. RS-Hash:
   1. O(n) = c1(n) + c2(n-1) + c3(n-1)

O(n) = c1(n) + (n-1)(c2+c3)

1. JS-Hash:
   1. O(n) = c1(n) + c2(n-1)
2. PJW-Hash:
   1. O(n) = c1(n) + c2(n-1) + P(c3(n-1) + c4(n-1))
3. ELF-Hash:
   1. O(n) = c1(n) + c2(n-1) + P(c3(n-1) + c4(n-1)) + c5(n-1)

O(n) = c1(n) + (c2-c5)(n-1) + P(c3(n-1) + c4(n-1))

1. BKDR-Hash:
   1. O(n) = c1(n) + c2(n-1)
2. SDBM-Hash:
   1. O(n) = c1(n) + c2(n-1)
3. DJB-Hash:
   1. O(n) = c1(n) + c2(n-1)
4. DEK-Hash:
   1. O(n) = c1(n) + c2(n-1)
5. FNV-Hash:
   1. O(n) = c1(n) + c2(n-1) + c3(n-1)

O(n) = c1(n) + (c2 + c3)(n-1)

1. BP-Hash:
   1. O(n) = c1(n) + c2(n-1)
2. AP-Hash:
   1. O(n) = c1(n) + c2(n-1)