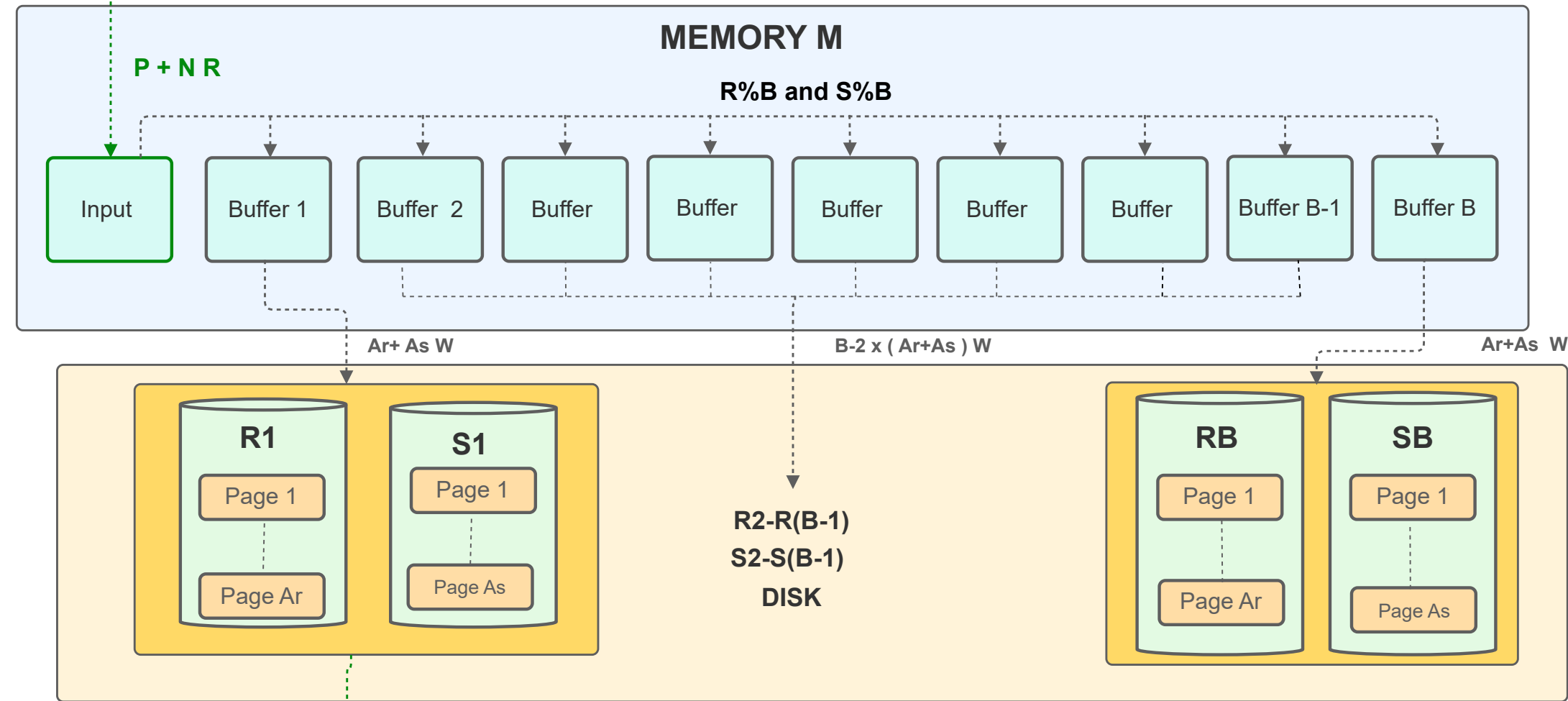


Grace Hash Join

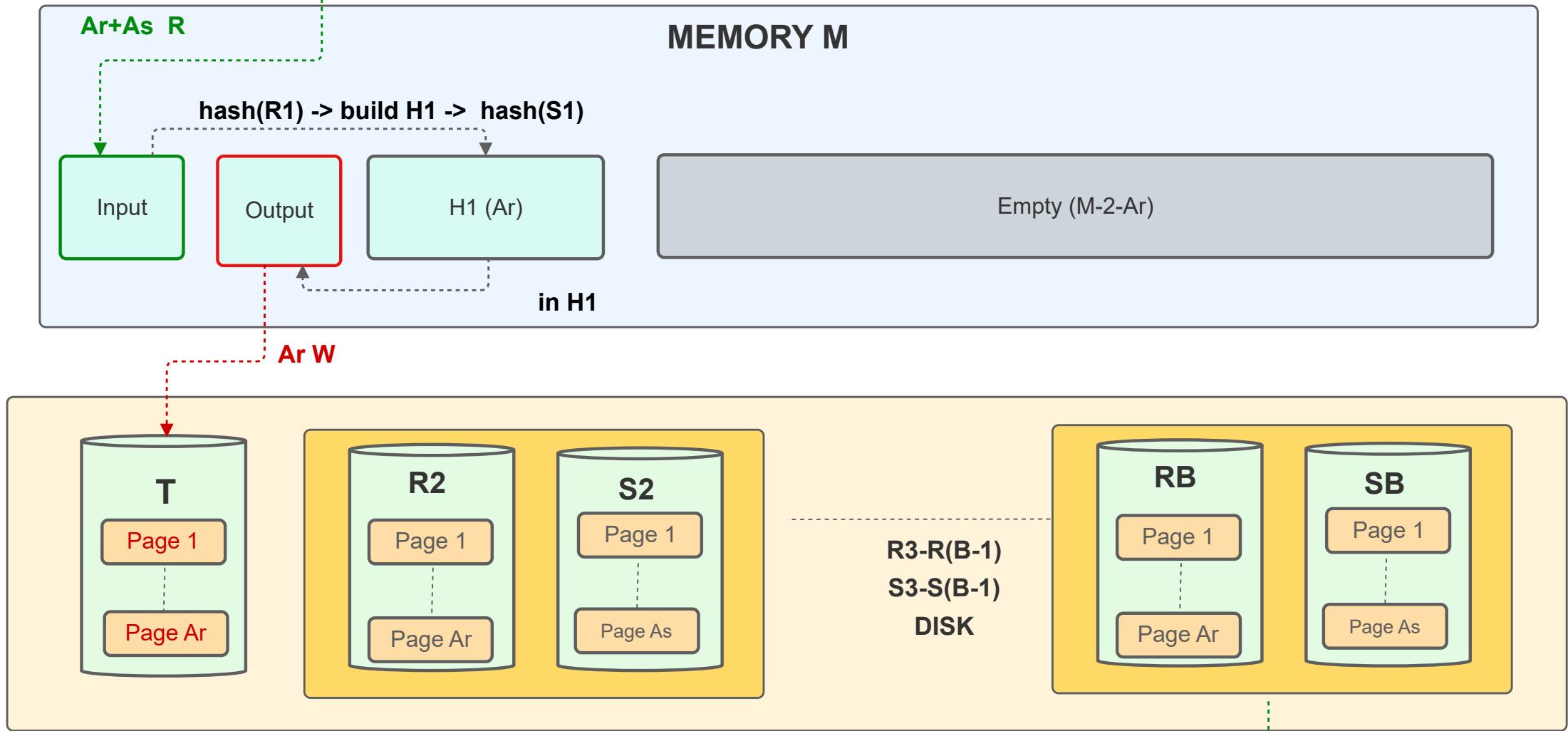
Memory (M) = M pages
Table size max = M-(input, output) = M-2
Numbers of partitions (B) = M-1
Partition size R = ⌊ PageR (P) / B ⌋ ≤ M-2 = Ar
Partition size S = ⌊ PageS(N) / B ⌋ = As
We assume selectivity=1 and hash functions equally distribute data.



BUILD

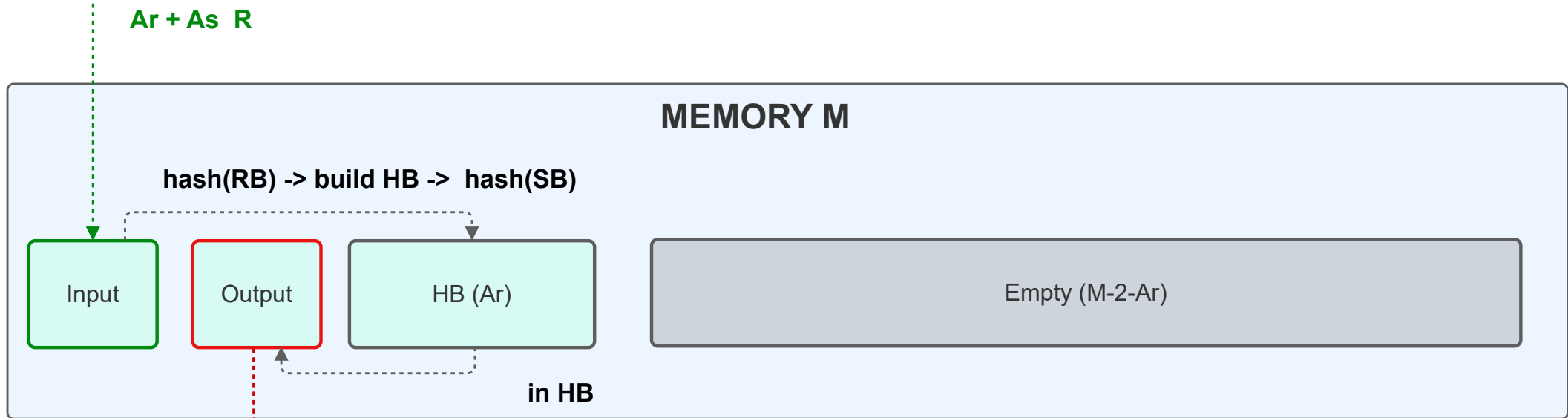
PROBE

1



PROBE 2-(B-1)

(B-2) x (Ar+As) R | (B-2)*Ar W



PROBE

B

Reading = (P + N) + B x [Ar + As] = P+N + P+N +
Writing = P + B x [Ar + As] = P + P+N +

Si P%B ≠ 0
+ B (?)
+ B (?)
Si N%B ≠ 0