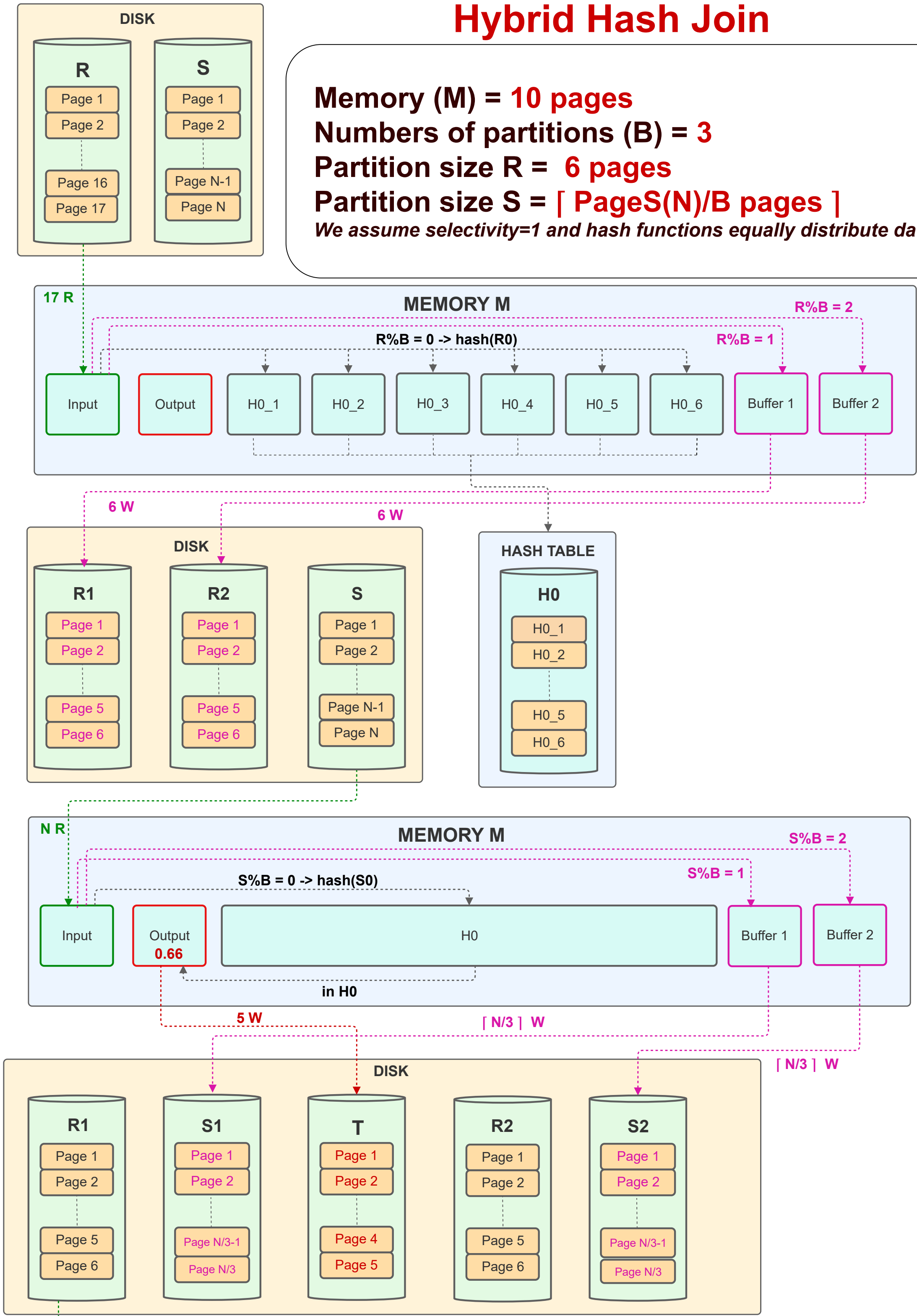


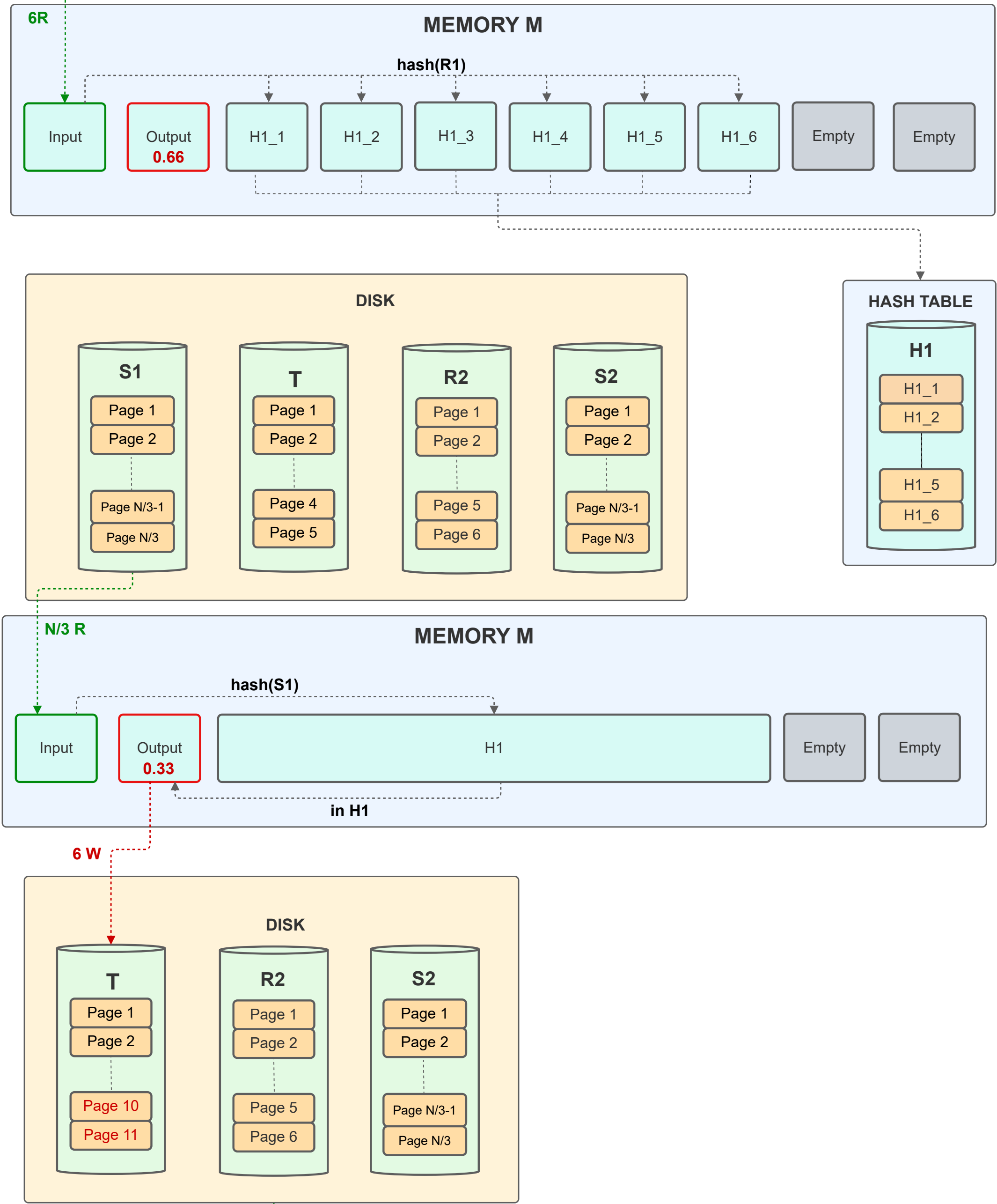
# Hybrid Hash Join

Memory (M) = 10 pages  
Numbers of partitions (B) = 3  
Partition size R = 6 pages  
Partition size S =  $\lceil \text{PageS}(N)/B \rceil$  pages  
We assume selectivity=1 and hash functions equally distribute data.

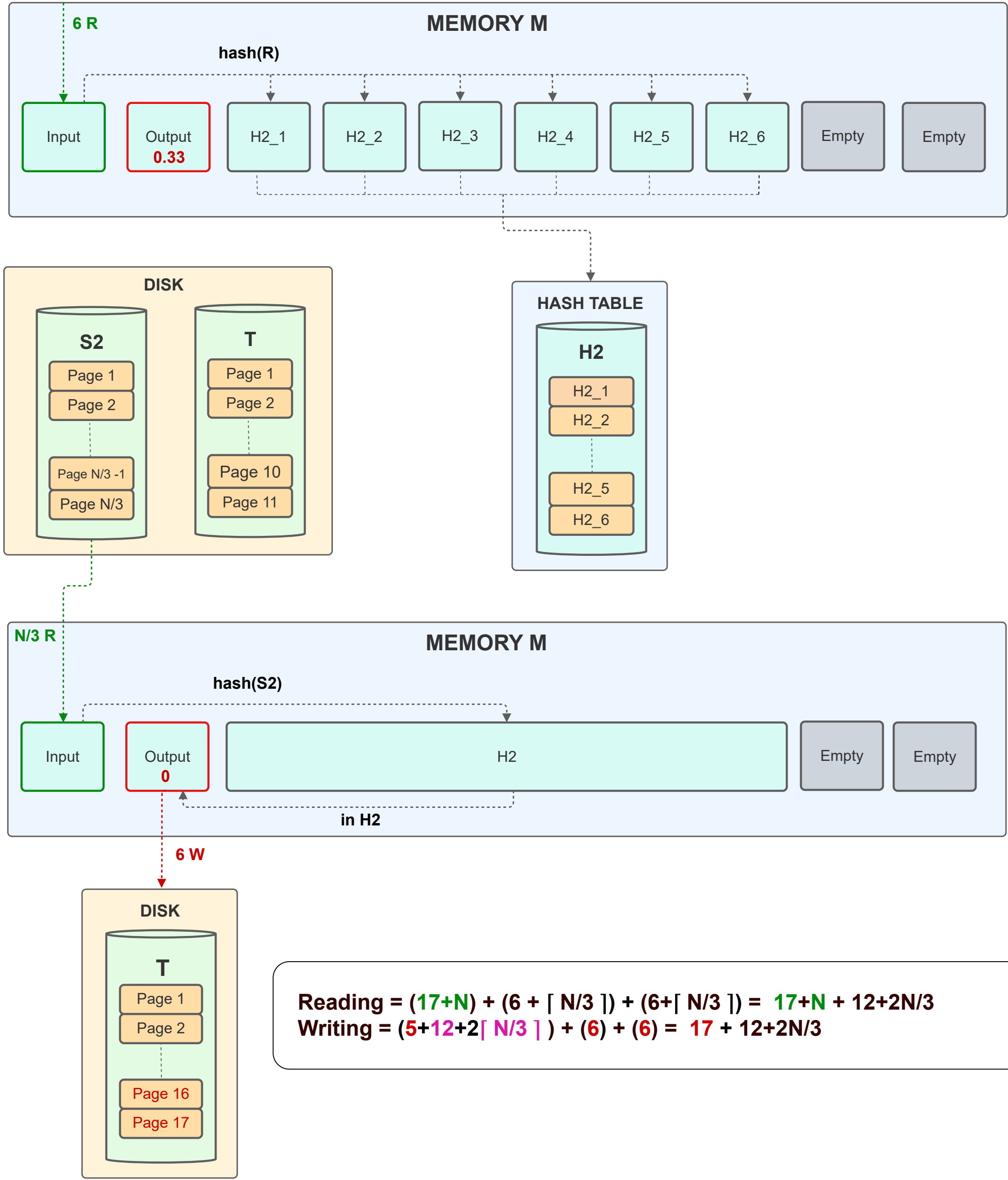
PASSE 0



PASSE 1



PASSE 2



Reading =  $(17+N) + (6 + \lceil N/3 \rceil) + (6 + \lceil N/3 \rceil) = 17+N + 12+2N/3$   
Writing =  $(5+12+2\lceil N/3 \rceil) + (6) + (6) = 17 + 12+2N/3$

SI N%B ≠ 0  
+ 2 (?)  
+ 2 (?)