Q1. Push(S,4); Push(S,3); Push(S,1); Pop(S); Push(S,2); Pop(S); Pop(S); Pop(S); Push(S,6); Push(S,5); Pop(S); Pop(S); Q2. (ai) Hash Code Input Data 0 1 Χ 2 Queue 3 Χ 4 Table 5 Tree 6 Graph 7 Heap (aii) Hash Code Input Data 0 Χ 1 2 Queue 3 Χ 4

Table

Tree

5

6

7	Неар

(b)

Collision always happen. We can avoid the problem by having larger size of hashtable.