name: Ruobing Fu NSID: xdt709

student number: 11319234 course number: CMPT-280-02

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Name prioritydueue (G>	Preconditions: For all 9, 9,600, 96 G no No new Privity (Duene (Gxin): n>0 9. insert (9): 9 is not full 9. is Frul: none 9. is Frul: none 9. maxitem: 9 is not Empty 9. matter: 9 is not Empty 1. delete Max: 9 is not Empty 9 delete Minx: 9 is not Empty 9 delete min. 9 is not Empty 9 delete min. 9 is not Empty 9 - frequency (9): item 9. exists in queue 9.
Sets: Q: sets of priority due we containing items from G G: sets of item that can be in the anew B= { true, failse} No = set of mon-hospiture integers Signatures: new Priority Quene (Grin): No for a R Q. insert (g): G +> Q Q. is trull: -B Q. more them: +> Q Q. minitem: +> Q Q. delete Max: +> Q Q. delete May: +> Q	
	Semantics: For 9EQ, g & G, n & No. new Priority Queue & G 7 (n): marke a now queue of items from G with capacity of n. q. insert(g): inserts an element with a certain priority q. istroty: return true if the queue is Empty. false otherwise q is Full: return false if the queue is full. false otherwise. q maxitem return the item with the highere privily. q minitem: return the item with the lowest priority.
	9 delete Max: delete the item with the highest priority 9 delete All Max: delete all the items with the highest priority 9. delete Min: delete the item with the lowest priority
	9. frequence (q): return the number of times of occurs in the quence