```
File - /Users/JH/Documents/GitHub/NTU_OperatingSys_Lab/nachos-3.4/vm/ipt.cc
 1 #include "syscall.h"
 2 #include "ipt.h"
 3 #include "system.h"
 4 #include "thread.h"
 5
 6 //-----
 7 // hashIpt
      Function to hash into IptHashTable. Take a virtual page number
9 // and process Id. Returns an IptEntry.
10 //----
11
12 IptEntry *hashIPT(unsigned int vpn, SpaceId id) {
   return iptHashTable[(vpn+(id*PRIMESIZE))%IPT_HASH_TABLE_SIZE].entries;
13
14 }
15
16 //-----
17 // IptEntry::IptEntry
    Inits data.
18 //
19 //-----
20
21 IptEntry::IptEntry(int vpnArg, int phyPageArg, IptEntry *prevIptArg)
22 {
23
   pid=currentThread->pid;
24
   vPage=vpnArg;
25
   phyPage=phyPageArg;
26
   prev=prevIptArg;
27
   next=0;
28 }
29
30 //-----
31 // IptEntry::~IptEntry
32 // Removes from list.
33 //-----
34
35 IptEntry::~IptEntry(void)
36 {
37 if(prev)
38
   prev->next=next;
39
   if(next)
40
    next->prev=prev;
41 }
42
43 //-----
44 // IptHashTable::IptHashTable
45 // Setup the sentinel
46 //-----
48 IptHashTable::IptHashTable(void)
49 {
   entries=new IptEntry(0, 0, 0); // sentinel
50
51 }
52
53 //-----
54 // IptHashTable::~IptHashTable
55 //
       Remove entries
```

$File - /Users/JH/Documents/GitHub/NTU_OperatingSys_Lab/nachos-3.4/vm/ipt.cc$ 56 //-----57 58 IptHashTable::~IptHashTable(void) 59 { 60 while(entries->next) 61 delete entries->next; 62 delete entries; 63 } 64 65 //-----66 // MemoryTable::MemoryTable 67 // set invalid 68 //----_____ 69 70 MemoryTable::MemoryTable(void) 72 valid=FALSE; 73 } 74 75 //-----76 // MemoryTable::~MemoryTable 77 // null body 78 //-----79 80 MemoryTable::~MemoryTable(void) // null body 82 83 } 84