渤海大学学生实验报告

(信息科学与技术学院)

实验课课程名称: 操作物统.

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实验室 房间号	2科格 Csn4	日期 时间	7022 年10月	<i>l</i> y _日	第(头,外)节	
年级、班	20级16年	学号	200/2361	姓名	感免	
实验项目 名 称	务曲出程品的问题一 毕有,消费有			指导 教师	孙德才	
实验环境	PC兼容机、Windows系统、Ct+			成绩		
实验目的	通过编写统则进线同步问题 ,加强对信号号相线的强解					
【实验内容】(算法、程序、步骤、数据记录与计算、实验结果和讨论等)						
1.阅读mutex, C和prestu.c中实现进栈的创建, 互介和信号号的创建和使用语						
2. 污泥型信息模拟生产有消费间歇的程序。						
# include < stdio-h > Will for single of Contract (1040x JAPINIFE)						
# include < stdlib.h> buffer[in] = next p;						
# include < windows.h> in=(in+1) % N;						
# define N t						
typedef int buffer-item; Release Nutex (mutex);						
struct r int 11; Dologio maphere [Full, 1, Null);						
butter-item DUTTER DIVI DWORD WINAPI CONSUMER (DOLP, Param)						
Liftor - item out = 0 in = 0;						
HANPLE WINAPI Producer (PULL Faram)) Struct rolata = * (Struct rx) Param;						
int next p	Inta = k (Struct	V*) }K	arcin: Strand	(unsi	igned) time(Null)	tdata j-
			Land	7		
Stand	6.1.01,7	11/1/20	LAGIL	torsing	leopject [rull 114	(TAN LE)
while (1)	1 Sleep (1000);		hext =	hutte	YTOMA I'	TNATA
	nextp=rand();		Out =	Cont +	1) % N;	
int next p Struct v d strand [ur); data = k (Struct) nsigned) time (NV { Sleep (1000); nextp=rand();	ν*) pα /11) t da	aram; Strand Whill(lata:j+1; Whit; Wait 1 next =	(unsi 1) S Forsing Forsing butter	igned) time(Null) gleobject (full IN gle object (mutex, : Yout];	tdata t1);

```
Release Semaphone (empty, 1, Null);
 Sleep (1000); 1
 int main lint argc, char targes)?
   int deeptime, Pricon, Chum;
  DWORDX Thread 2dp, * Thread ();
  Struct V & Court P, * Court C;
 HANDLE & Thread Handle P, & Thread HANDLEC',
 sleeptime = 2000; Pnum=3; aum=3;
Thread Handle P= (HNADLE) *) malled from * Size of (HANDLES);
Thread Handlec = (HANDLE x) malloc [Com & size of (HANDLE)));
ThreadHandle $ = (pworo x) malloc (Pnum * Size of (Dw OAOI);
Thread 2D C = (HANDLE X) malloc (num X size of (HANDLE);
 mutex = Create mutex (NWI, FALSE, Null);
 empty = Create Semplore (Null IN, N, Null),
 tall = create semphore (Null, N. Null);
  for (i=0; i< pum; i++) {
              Thread Handle PTij = Creute Thread (Null, opredaoer)&
               Count P Zi) i= i+1;
                                     Coutpti], of Threodid([i]); }
 for (i=0 ; i > pnum; i+1) {
         (ount Ii], j=i+1;
        Thread Hardle Ti] = CreatTh read [Null, o cpn, sammer, & Countli]o
                            8 Thread 2d [i]);
         Sleep (sleep time);
          getchar();
          return 0; 1
实验结果?
    生产有生产3产品18190,并加入缓冲池!
                                            教师签字:
    消费每1取出产品月90,并消费3.
                                                       月日日
```