

s97610044

Run the example program

What are you

系統還原	自朝)更新	遠常	Balala的使用者	受數(①)
牧能	電腦名稱 管理員的身分登入,, 建器耕程、記憶燈速			優載 THMP TM?	值 C:Documents and Settings/Balab/Local S C:Documents and Settings/Balab/Local S
			設定(2)		新婚四」(編輯④)(刪除①)
使用者設定檔 關於您登入時 踏動及修復 – 系統啓動、系			設定(1)	系統變數(S) 優數 OS Path PATHEXT PERL5LIB PHPRC	值 Windows_NT C.\Program Files\PHP\:E.\oracle\product\ COM;EXE;BAT;CMD;VBS;VBE;JS; E.\oracle\product\10.2.0\db_1\perl\5.8.3\L C.\Program Files\PHP\ 新增(W) 编輯(J) 刪除(L)
	環境變數()	D î	昔誤報告(民)		確定 取消
		定 〕 取〉			

What are you Jooking for?

輯系統變數		
ジ数名稿(N):	Path	
變數値(型):	Files/QuickTime/QTSystem\;C\Dev-Cpp'	bin
	確定 取消	-



没定程式存取 Adobe Acrobat 8 Professi设預設値	
FL Adobe Flash CS3 Professic ¹¹ 表機和傳真	
Microsoft Office PowerPoi 現明及支援(日)	教行 (8)
PCMan Combo Novus 変示(5)	● 輸入程式、資料夾、文件或網際網路資源的名 ■ 構、♥mdows會自動開發。
<u> </u>	開啓(<u>()</u>): [:ml]
Alprogram 登古生) 🕐 電腦關機(U)	確定 取泪 瀏覽(B)
🔰 🖉 🕼 🚺 🚺 🖉	🔰 mipe multi 🛛 🌆 [7/18] Briz 🤇 🖉 Case Study

C:∖Documents an	d Settings	Balala	>cd My⊭	
C:\Documents an	d Settings	Balala	Ny Documents>cd hw_tenp	
C:\Documents an	d Settings	Balala	\Ny Documents\hu_temp}dir	
Volume in driv				
Vulume Serial			D 8	
Directory of C	Document	s and s	ettings\Balala\My_Documents\hw_temp	
1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -				
2010/05/20 上生	₽ 12:02	<dir></dir>		
2010/05/20 上 ⁴ 2010/05/20 上 ⁴	∓ 12:02			
	∓ 12:02	<dir></dir>	 9,210 Chapter4ProgrammingProjects.rar	
2010/05/20 上生	∓ 12:02 ∓ 06:16	<dir></dir>	 9,210 Chapter4ProgrammingProjects.rar 4,140 node0.c	
2010/05/20 <u>上</u> / 2010/05/06 下/ 2004/08/23 下/	∓ 12:02 ∓ 06:16	<dir></dir>	그는 것은 방법을 가지 않는 것을 가지 않는 것이 있다. 가지 않는 것이 있는 것이 있는 것이 있는 것이 없다. 가지 않는 것이 있는 것이 없는 것이 없는 것이 없다. 가지 않는 것이 없는 것이 없다. 것이 없는 것이 없다. 것이 없는 것이 없 않이 않은 것이 없는 것이 없 않이 않아. 않이 않아. 것이 없는 것 않이	
2010/05/20 <u>上</u> 2010/05/06 下 2004/08/23 下 2004/08/23 下	∓ 12:02 ∓ 06:16 ∓ 02:33 ∓ 02:33	<dir></dir>	4,140 node0.c	
2010/05/20 <u>上</u> 2010/05/06 下 2004/08/23 下 2004/08/23 下 2004/08/23 下 2004/08/23 下	∓ 12:02 ∓ 06:16 ∓ 02:33 ∓ 02:33 ∓ 02:33 ∓ 02:33	<dir></dir>	4,140 node0.c 3,862 node1.c	
2010/05/20 2010/05/06 2004/08/23 2004/08/23 2004/08/23 2004/08/23 下空 2004/08/23 下空	∓ 12:02 ∓ 06:16 ∓ 02:33 ∓ 02:33 ∓ 02:33 ∓ 02:33 ∓ 02:33	<dir></dir>	4,140 node0.c 3,862 node1.c 4,165 node2.c	
2010/05/20 2010/05/06 2004/08/23 2004/08/23 2004/08/23 2004/08/23 2004/08/23 下生 2004/08/23 下生	↓ 12:02 ↓ 06:16 ↓ 02:33 ↓ 02:33 ↓ 02:33 ↓ 02:33 ↓ 02:33 ↓ 02:33 ↓ 02:33	<dir></dir>	4,140 node0.c 3,862 node1.c 4,165 node2.c 3,874 node3.c	

🛋 C:\WINDOWS\system32\cmd.exe

C: Documents and Settings Balala My Documents hw_temp>gcc *.c -o temp.exe node0.c:10: warning: useless keyword or type name in empty declaration node1.c:10: warning: useless keyword or type name in empty declaration node2.c:10: warning: useless keyword or type name in empty declaration node3.c:10: warning: useless keyword or type name in empty declaration

C:\Documents and Settings\Balala\My Documents\hw_temp>temp.exe Enter TRACE:2

It is likely that random number generation on your nachine is different from what this emulator expects. Please take a look at the routine jimsrand() in the emulator code. Sorry.

C:\Documents and Settings\Balala\My Documents\hw_tenp>

- 🗆 X

looking for :

• To modify the prog4.c like the picture below

```
148 avg = sum/1000.0;
149 if (066avg < 0.25 || avg > 0.75) {
150 printf("It is likely that random number generation on your machine\n");
151 printf("is different from what this emulator expects. Please take\n");
152 printf("a look at the routine jimsrand() in the emulator code. Sorry. \n");
153 exit(0);
154 }
155
```

C:\W	INDOWS	system	132\cmd.e	exe										<u> </u>	>
Enter T	RACE:At t		-0.000, :	rtinitØ	0	calle	ł.								1
25028 - 52		via													
DØ	1	2	3												
															-
11		999	9999												
dest 21			9999												
31			7												
	t=0.000,														
	t=0.000,														L
At time	t=0.000,	node	0 sends	packet	to	node	3	with:	Ø	1	3	7			
At time	t=0.000,	rtini via	it1() ca	lled											
D1	Ø	2													
И:	1 9	444													
dest 21	9999	1													
31	9999	9999													
At time	t=0.000,	node	1 cende	packet	to	node	٥	with:	1	Ø	1	9999			
At time	t=0.000,	node	1 sends	packet	to	node	2	with:	1	Ø	1	9999			
At time	t=0.000,	rtini	it2() ca	lled											
10 010		via	Long of the												
D2	Ø		3												
More		1000													
HOLE											22				-

How to connect?

 To connect with each other can use the function in pre-program

- 1. s = connectsock(host, portNum, "tcp");
- accept(msock, (struct sockaddr *)&fsin, &alen);

How to connect? cont.

- However, we can find that only one connection can connect to the server by using these function
- So, we should use "thread" to solve this situation.



• We can image that this can execute more program in the same time.

How to use Thread?

We can use the function which C/C++ has.

What are you

unsigned long
 __beginthread(void (*)(void *), unsigned
 __stksize, void *__arg);

How to use Thread? cont.

- "unsigned long" is an intager which system will give this thread
- "void (*)(void *)" can type in the function name
- "unsigned __stksize" is stack size, and it always set 16536 about 2^{14}
- "void *__arg" is mean Argument which we want to give this function
- E.g.

_beginthread((*)(void*)func, 16536, "1");

How to use Thread? cont.

looking for a

 Notice that executing the thread function, it will copy the main program's state.

• On the other hand, if you change the variable's value, the same variable's value in another function will be changed, too!



• How to conveniently change numbers to the string, or change string to numbers?

• 1. Change number to string. char buffer[100]; int num=10; memset(buffer, '\0', sizeof(buffer)); sprintf(buffer, "%d", num);

 2. Change string to number num = atoi(buffer);

