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Lab 5 Prob 1 & 2

1. The tid represents the thread number in the active process. This number is needed to distinguish between the various threads that might be created within one process group.
2. Pthread_join suspends execution of the calling thread until the target thread terminates. That is, the parent process will wait until the threads complete whatever processing instructions they are given.
3. Pthread_join is required; without it, the parent process would likely finish before its created threads, which would kill the threads, likely prematurely
4. The tid is the thread id: the unique identifier for the thread being passed in.
5. The tid does not belong to the parent thread, so you can pass it any thread id's created within the scope of the parent thread.

Prob 1 Output:

Creating thread 1

Creating thread 2

Creating thread 3

Goodbye from thread 2

Creating thread 4

Hello from thread 3

Hello from thread 1

Creating thread 5

Goodbye from thread 4

Creating thread 6

Hello from thread 5

Goodbye from thread 6

dherve@cslinux:~/cscd340/Lab 5/Prob 1\$./a.out

Creating thread 1

Creating thread 2

Hello from thread 1

Creating thread 3

Goodbye from thread 2

Creating thread 4

Hello from thread 3

Creating thread 5

Goodbye from thread 4

Creating thread 6

Hello from thread 5

Goodbye from thread 6

dherve@cslinux:~/cscd340/Lab 5/Prob 1\$ ^C

dherve@cslinux:~/cscd340/Lab 5/Prob 1\$./a.out

Creating thread 1

Creating thread 2

Hello from thread 1

Creating thread 3

Creating thread 4

Goodbye from thread 2

Creating thread 5

Creating thread 6

Goodbye from thread 4

Hello from thread 5

Goodbye from thread 6

Hello from thread 3

dherve@cslinux:~/cscd340/Lab 5/Prob 1\$./a.out

Creating thread 1

Creating thread 2

Hello from thread 1

Creating thread 3

Goodbye from thread 2

Creating thread 4

Creating thread 5

Hello from thread 3

Goodbye from thread 4

Creating thread 6

Hello from thread 5

Goodbye from thread 6

dherve@cslinux:~/cscd340/Lab 5/Prob 1\$./a.out

Creating thread 1

Creating thread 2

Creating thread 3

Creating thread 4

Creating thread 5

Creating thread 6

Hello from thread 1

Goodbye from thread 2

Hello from thread 3

Goodbye from thread 6

Hello from thread 5

Goodbye from thread 4

Prob 2 Output:

thread 2 filling array element 0 with 100

thread 3 filling array element 1 with 101

thread 3 filling array element 2 with 102

thread 3 filling array element 3 with 103

thread 3 filling array element 4 with 104

thread 3 filling array element 5 with 105

thread 3 filling array element 6 with 106

thread 3 filling array element 7 with 107
thread 3 filling array element 8 with 108
thread 3 filling array element 9 with 109
thread 3 filling array element 10 with 110
thread 3 filling array element 11 with 111
thread 3 filling array element 12 with 112
thread 3 filling array element 13 with 113
thread 3 filling array element 14 with 114
thread 3 filling array element 15 with 115
thread 3 filling array element 16 with 116
thread 3 filling array element 17 with 117
thread 3 filling array element 18 with 118
thread 3 filling array element 19 with 119
thread 3 filling array element 20 with 120
thread 3 filling array element 21 with 121
thread 3 filling array element 22 with 122
thread 3 filling array element 23 with 123
thread 3 filling array element 24 with 124
thread 3 filling array element 25 with 125
thread 3 filling array element 26 with 126
thread 3 filling array element 27 with 127
thread 3 filling array element 28 with 128
thread 3 filling array element 29 with 129
thread 3 filling array element 30 with 130
thread 3 filling array element 31 with 131
thread 3 filling array element 32 with 132
thread 3 filling array element 33 with 133
thread 3 filling array element 34 with 134
thread 3 filling array element 35 with 135

thread 3 filling array element 36 with 136
thread 3 filling array element 37 with 137
thread 3 filling array element 38 with 138
thread 3 filling array element 39 with 139
thread 3 filling array element 40 with 140
thread 3 filling array element 41 with 141
thread 3 filling array element 42 with 142
thread 3 filling array element 43 with 143
thread 3 filling array element 44 with 144
thread 3 filling array element 45 with 145
thread 3 filling array element 46 with 146
thread 3 filling array element 47 with 147
thread 3 filling array element 48 with 148
thread 3 filling array element 49 with 149
thread 3 filling array element 50 with 150
thread 3 filling array element 51 with 151
thread 3 filling array element 52 with 152
thread 3 filling array element 53 with 153
thread 3 filling array element 54 with 154
thread 3 filling array element 55 with 155
thread 3 filling array element 56 with 156
thread 3 filling array element 57 with 157
thread 3 filling array element 58 with 158
thread 3 filling array element 59 with 159
thread 3 filling array element 60 with 160
thread 3 filling array element 61 with 161
thread 3 filling array element 62 with 162
thread 3 filling array element 63 with 163
thread 3 filling array element 64 with 164

thread 3 filling array element 65 with 165
thread 3 filling array element 66 with 166
thread 3 filling array element 67 with 167
thread 3 filling array element 68 with 168
thread 3 filling array element 69 with 169
thread 3 filling array element 70 with 170
thread 3 filling array element 71 with 171
thread 3 filling array element 72 with 172
thread 3 filling array element 73 with 173
thread 3 filling array element 74 with 174
thread 3 filling array element 75 with 175
thread 3 filling array element 76 with 176
thread 3 filling array element 77 with 177
thread 3 filling array element 78 with 178
thread 3 filling array element 79 with 179
thread 3 filling array element 80 with 180
thread 3 filling array element 81 with 181
thread 3 filling array element 82 with 182
thread 3 filling array element 83 with 183
thread 3 filling array element 84 with 184
thread 3 filling array element 85 with 185
thread 3 filling array element 86 with 186
thread 3 filling array element 87 with 187
thread 3 filling array element 88 with 188
thread 3 filling array element 89 with 189
thread 3 filling array element 90 with 190
thread 3 filling array element 91 with 191
thread 3 filling array element 92 with 192
thread 3 filling array element 93 with 193

thread 3 filling array element 94 with 194

thread 3 filling array element 95 with 195

thread 3 filling array element 96 with 196

thread 3 filling array element 97 with 197

thread 3 filling array element 98 with 198

thread 3 filling array element 99 with 199

thread 3 filling array element 0 with 100

thread 2 filling array element 0 with 100