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Write a C-program to simulate deadlock detection.
  #include Letdio. h>
  static Pot mark [20];
  int i, j, np, nr;
  int main()
  int alloc [10] request [10] avail [10], request for conscius;
  Printf I"In Enter the no-of process: ");
  scant ("7d", enp);
  Print + ("In the the no. of resources);
 scanf ("y.d", Ani);
 tor 1:=0; i<nr; ;++)
 frintf ("In Total Amont of resources R >d:", "+1);
 scanf ( " y.d", &r [1));
 Printf I" Enter the request matrix: "); stans an
 for (1=0; 12np; 1++)
 for (j=0; j=0r; j++)
scanf [" y.d", a request [i] [j]);
Printf ("In total the allocation mater'x: 11);
pr (1=0; 1< np; 1++)
 for (j=0; j < or; j++)
scanf ("Y.d", falloc Cijeji);
for ( p=0; j=nr; j++)
Scan 1" 1.d", Ralloc Eig (j) ; Dong adam
                                         : 40310
for (j=0; j=nr;j++)
avail [j]=r[j];
                            hassing ad amid
for (i= 0; 1< np; i++)
avail [i] ==a Llog[i] [j];
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for (1°=0;12 np; 1++) int count =0; for 19=0; j < nr; j++) 5 (Infom) (O==C)3Ci3 == 0) count ++; else. Cold floor, for a cold as though the cold sollo bleak; (12200) of the read agree of the if (count = pr) , 10 . or . od , 19103 01 () + thing mark [i]=1: 3 for 1 = 0; j < nr; j++) Enter variable from the characteristics are the tor 1:=0; i2np; i++) ((i) 15 "by "law) Int canbeprocessed -0; upac sell 13103 (1710) if (mark C1); =1) (+1) qnsi :0=11 m (++1,100), (0=1) 10+ for 1j=0; 12nr; jtt) to support to be 11 fam mirty (") is to tel the allocation maturx : "); & if request cijcj) <= wcj) can be processed=1; else can be processed to; it some so it by break; if (can be processed) (++1) mark [1]=1; 1011=0;j<ns;j++)

w [1] + = alloc [9] (j); FULL 103 - PLETO J. Par. ip. n. int dead lock =0; 100 and all tons has consider for (1=0; 12np; 1++) if Imaik List = 1) deadlock = 1; it (deadlock) Printf ("In Deadlock detected"); else Printf ("In No deadlock possible"); output enter the no. of process Enter the no- of resource enter the request matrix 4 5 3 8 2 2 Enter the allocation matrix 200 302 Enter available resources 3 32 No detec dead lock possible.

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902
                                                                                                                                                                                                                          Enter number of allocated resources 3 for each process
Enter number of available resources
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Enter total number of required resources 3 for each process
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Enter number of processes and number of resources required
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PS D:\VS Code\OS> cd "d:\VS Code\OS\" ; if ($?) { gcc bankersV2.c -0 bankersV2 } ; if ($?) { .\ba
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