cosite a c program to simulate the following configuous memory allocation techniques

a) worst-fit

b) Best-fit

c) First-fit #include 2stdio.b> #include 2 stdlib. h> # define MAX 25 foid word fit tent black size & int xoid fix+fit (int nb, int nf, int b[], int [[]) int allocated [MAX] = doy; for (int i=0; i 10); i+1) } f[[]=-1; for (int j=0; j2nb; j++) of if (allocated[]== 0 && b[]>= [[]) allocated[j]=1; break; point ("In File no: It File size: It Black no: It Black - size:") for(in) i=0; izn(; i+1) } print["In/ditit/ditit/ditit/d", it),
[[i], [[i]+1, 5[[[i]]); else

```
point ("10-1.4 HIE > d)+ 14-1+ [4-", [+1, ](]);
void bestfit (int nb, int nb, int b[], int [[])
      int 66 [ KAM] 69 + 11
     int allocated [MAX] = do};
     for(int i=0; icnf; i+1) of
ind best = -1;
         for (int j = 0; jenb; j++) d
             i [ (best = - ) | b[j] 2 b[best])
    if (best!=-1) d

[[i] = best;
         allocated [best] = 1;
  finfile-to: It file-size: It Block-no: It Block-size:
  for (int i= 0; i x n /; i+1) d
         print[["In-1.d]+1+.d]+1+.d]+1+.d]+1+.d[+1+.d]; i+1,
     else
        point [" In-talt It 1- 1+ It -", i+1, 60]);
void worstfit (int ob, int of, int b[], int f[])
```

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int allocated [MAY] = 40%;
             $00 (in-) f=0; i=nf; i++) d
                ind woost = -1;
                102 (in) j=0; j 2nb; j+1) d

i [(allocated [j] == 0 & b[j] >= [[i]) d

i [(wors) ====11] b[j] > b[wors+]
                        = +280w
             ib (coorst!=-1) d
          1/ [i] = worst;
         allocated [worst] = 1;
          print ["Infile_no: It file_size: It Block_no: It Block_size:"]
          Jos(in+ 1=0;120j; 1++)d
             if (//ci]!=-1)
               print ["In/d+d |+ | 1 + / d | + | + / d | + | + / d |

i+1/[[i], [[i]+1, b[[i]]);
           else
2 print[("In 1-d | t | t - 1 | t - ", i + 1, [[i])
       int main()
           ind nb, of, choice;
           print ("Memory Managemen-) Scheme");
          ecan ("1.d", enb);
          mint ("Portex the number of files:");
```

```
print[["In Entex the size of the blocks: ]");
for (int 1=0; intb; i+1) of
      print] ("Block 4.d:", 1+1);
scan ("1.d", (b[1]);
point ("Enter the size of the files: In");

for (ind i= 0; i Lnf; i+1)d

point ("File 1.d:", i+1);

scan (".l.d", & [[i]);
                     Mercall Morragement Si
while())
  print ["In 1. First Fit In 2. Best Fit In 3. word Fit In 4. Exit In");
  ecan ("y.d", Echoice);
  switch (choice)
      case 1 :
           print ("In It Memory Management scheme - first fid
           firstFit(nb, n1, b, 1);
           break;
    case 2:
         print f("In It Memory Management scheme - Best Fit In"),
         best Fit (nb, n/, b, f);
         break;
   ease 3:
                                  his become
        print ["In It Memory Management scheme - Word sit hil)
        worstfit (nb, nf, b, f
 print ["In Existing .... In");
```

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	(x14/0); (10) [10]					
- 11	break; and all soluted of forces					
	defaulte de de la					
	prints ("In Invalid choice. In"); break;					
	break; (1915)					
	-4					
	ideal and the sais are applied to					
	seturn o; solder desires frages					
	9 (Chilithe stant boise					
	arport:					
	Memory Management Scheme					
1.	Pod as 11					
143 6000	Enter the number of blocks: 5 Enter the number of files: 4 Enter the size of the blocks: Block 1: 100					
	Enter the size of the blocks?					
	Block 1: 100 Block 2: 500					
	Block 2: 500					
	3.200					
Circ.						
1014 (014) 3"	Block 5.600					
	Enter the size of the files: File 1: 123					
	File 1: 123					
	FIR 2 . 343					
Palver						
	The second of the second secon					
Maria L.	3. Worst fit					
No. 11 Page 1	The state of the s					
	11 12 10 1					
	Memory Management scheme - First Fit File_no: File_size:					
	File_no: File_size:					
	123 Block-110 8/ock-110					
13.30	2 500					

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d	3 & 3	5	600	
3	5 2 3	-	600	
4	50	1	Tot	
			200	
1. First Fi	7			
2. Best Fi t				
3. worst fin	7			
4. Exit				
Enter your	choice: 2			
Memory	y Management s	cheme - Be	fiz 62	
file-no:	- 1 1	Bloc		Rlock-size
1	123	3		200
2	323	8		500
3	523	5		600
4	50	1		100
1. fixs4 fi 4				
d. Best fit				
3. Worst Fit				
4.13x17				
Enter your	choice: 3			
Memory	Management	Scheme - W	tia terror	
	File-sire:		- no '.	Block-size
1	123	5		600
2	3 2 3	a		500
3	523	~		~
H	50	H		300
Leirst Fit				
2. Best Fit				
3. MO874 E!	+			
4. Exjy				
Enter your	choice:4			
Exiting				