Ex. No.: 10a) Date: 09/04/25

BEST FIT

To implement Best Fit memory allocation technique using Python.

Algorithm:

1. Input memory blocks and processes with sizes

3. Start by picking each process and find the minimum block size that can be assigned to current process

4. If found then assign it to the current process.

5. If not found then leave that process and keep checking the further processes.

Program Code:

include < stdis . h ? Void bothet (int blaks (3, into, int processor (3, int n) ? int alleation En) fat (int iz 6; icn; i++) i aladin [i] 2-1;} foot (inti 20:1 cn:141) { for (in) 20) 3 em; jot) { if (bloks fi) > 2 proconos [i) & albation [i] 2 = 1) { of Chest Ida ==-1 X blake [bot 2dx > block [1)) { 3 best Id re 7; Hold Ida ! = -1) {
allocation Li) # best Ida; 59 blocks [best Pdx] - = processes [i].

Built ("Buxen . 1.d alkated to blak of.d (Size 1.d) \n"; it; boot Tole + 1, blacks (boot The))? Measure of prosection print ("proces of I look not be allosted \r", 41); int mon() { int min part (" Enter the number of monory black: "): Sear ("/. d! &m); print ("Enter the number of priocesses:"): Seof (".l.d", EN; int blocks [m), product n); prints ("Enter to Sizes of led monory blak: \n", m) for (int 120; 1 cm; 1+1) } Staf ("./.d: & blaks[W]: part ("Enter the Ligos of led processes : \" n). for Cation; icn; i+1) E 2 Scorb ("/d", & processes [1]); best fit (block; m, Process, n): lecture o;

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Input: titor to number of normany blocks: Enter the number of processes: 4 of the pay of the water of the Enter the Sizes of 5 money blocks: 20 30 40 50 Esto to ligos cof 4 presentos 5 10 2025 Output: they then to work of word they ? Jan Col. 11. 11 12. Breen No Process Sign BlackNo, :03 "64. 3 /9 2 . Carolary (alchall to 10 stay how you file of you want props 13 26 Holicas 1 :000 this Joseph 14 (15) Holical 2: 6:16") food 15 Tanger i course of grape after of after from foliation tension 2 106 ("1-8" & grander (12) 3 best ft (bate; or Process o).

Sample Output:

Process No.	Process Size	Block no.
1	212	4
2	417	2
3	112	3
4	426	5

Result:

Thus, Best fit momory allocation technique executed Successfully.

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Ex. No.: 10b), Date: 10/4/25

FIRST FIT

Aim:

To write a C program for implementation memory allocation methods for fixed partition using first fit.

Algorithm:

1. Define the max as 25.

2: Declare the variable frag[max],b[max],f[max],i,j,nb,nf,temp, highest=0, bf[max],ff[max]. 3: Get the number of blocks, files, size of the blocks using for loop.

80 10 febro 18 feb Bot & Black 100.16 4: In for loop check bf[j]!=1, if so temp=b[j]-f[i]

5: Check highest

Program Code:

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(141. 140 (1001) el Void first fit Cit b[], int f [], into , into [] int frog CMAND, HEMAND, FELMAND intili it highest 20: for (120) i cob; 1478 7 8[1720; fo(i20; 1 cm/ ; i++) & for (j20; j cnb; j+1)f 4 (4[]) = 2022 bli) > 2 fli)) { HEU=1 5 frag [2] 2 b[j] = [(i);

by Gj = 13 highert or it if Chighat 2:0) { 最近フェール 3 fogli32-1; highet 20; part (" In fib no. 18 fil Sis 1 to Black No. 16 Black Sire t fregnation Init for G2031 caf: 141) { pat (". 6 d) t 1t . 6 d 1 t 1t ? i+; f [:)): if Cff Ei) 12-DE print ("%) \\ 1\to\.d\t\ \\ " i+0\.(1); if Cff [i]!==-i)f peut (1.1. d 1+ 1+ 1. d 1+ 1+ -1. d 10" J. ff [i]+1, b [ff [i] Bog [i]) print ("Not Allerated 1 t - 16 (t - Xm"). 4505 H (CB) - [Bd - (B) pay

int main () { ecolod govern go whose it & I int b Ema), & [MAX); and to don't be int ob, of; Pront C'Enter the number of monogy blocks: "I' Scool (" .). d ", Ind): 00 1. 0 hall 12 Jest 9 prints l' Entre to number of file: "): Saf ("./. d", 2 f); our estable 30 23 603 print ("In Fater the sign of blacks : In"); for (i=0; i 2nd; i+1) & part (" Block - led: ", i+1): Ed & 83 Leaf (".l.d", & blid): 01111 Paint (" In Erlor the Sign of the fib: In "): for (izo: icnf; i++){

purt ("fib:/d: ", i+1); Sof (". ld", & f (2); first fit Cb, t, nb, nf); loturn 0;

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Tot, Enter the number of monog block is Charles County A Enter the menter of file: " Et to Sizes of the block: graff house for expose of set I feet Black 1:100 848 (P 100) Just Blak 2: 200 of in the spent of their Black 3: 300 CA2, 6 4.3 /2 Block 4: 150 for the the the lig of blake in Is Block 5: 500 (1 (1 = 0) 1 2 (1 = 0) 8 per f (1 flat - 6 d : Enter to Sive of the file: Kenf C. 1. 1. 8 6629. fil 1:120 policinate the sign of the februarie fil 2: 300 JE441: 3051 (023) 10/ fil 2:150 : (02) " : 87. 97 3 # al fib 4: 200 Output? fil No . filsig BlockNo Bal Siro progration 100 300 3 300 15 0 150 200 200 300

Sample Output:

```
Enter the number of files:3

Enter the size of the blocks:-
Block 1:5
Block 2:8
Block 3:4
Block 3:4
Block 4:10
Enter the size of the files:-
File 1:1
File 2:4
File 3:7

File a:7

File a:7
```

Result:

Thus, marrow allocation methods for find parties they first feet counted Succeptuly.

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