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Lab 10

Ques1: Implement the first fit algorithm?

Source Code

```
#include<stdio.h>
int main()
    int bsize[10], psize[10], bno, pno, flags[10], allocation[10], i, j;
    for(i = 0; i < 10; i++){
        flags[i] = 0;
        allocation[i] = -1;
    printf("Enter no. of blocks: ");
    scanf("%d", &bno);
    printf("Enter size of each block: ");
    for(i = 0; i < bno; i++){
        scanf("%d", &bsize[i]);
        printf("Enter no. of processes: ");
        scanf("%d", &pno);
        printf("Enter size of each process: ");
   for(i = 0; i < pno; i++){
       scanf("%d", &psize[i]);
   for(i = 0; i < pno; i++){}
                                   //allocation as per first fit
       for(j = 0; j < bno; j++){
            if(flags[j] == 0 && bsize[j] >= psize[i]){
                allocation[j] = i;
               flags[j] = 1;
               break;
   printf("\nBlock no.\tsize\t\tprocess no.\t\tsize");
   for(i = 0; i < bno; i++){
       printf("\n%d\t\t%d\t\t", i+1, bsize[i]);
       if(flags[i] == 1){
           printf("%d\t\t%d",allocation[i]+1,psize[allocation[i]]);
       else{
           printf("Not allocated");
        }
    return 0;
```

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Output

	Enter no. of blo	ocks: 4			
	Enter size of ea	ach block: 3			
	Enter no. of processes: 2				
Enter size of each process: 10					
	Enter no. of pro	ter no. of processes: 4			
	Enter size of ea	ach process: 30			
	nter no. of processes: 3				
	Enter size of each process: 25				
ı		ter no. of processes: 4			
		ter size of each process: 45			
	30				
	90				
	34				
	Block no.	size	process no.	size	
	1	3	Not allocated		
	2	10	Not allocated		
	3	30	2	30	