EXP 23

```
#include<stdio.h>
void firstFit(int blockSize[], int m, int processSize[], int n)
{
	int i, j;
	int allocation[n];

	for(i = 0; i < n; i++)
	{
		allocation[i] = -1;
	}

	for (i = 0; i < n; i++)
	{
		for (j = 0; j < m; j++)
		{
			if (blockSize[j] >= processSize[i])
			{
				allocation[i] = j;


				blockSize[j] -= processSize[i];

				break;
			}
		}
	}

	printf("\nProcess No.\tProcess Size\tBlock no.\n");
	for (int i = 0; i < n; i++)
	{
		printf(" %i\t\t\t", i+1);
		printf("%i\t\t\t\t", processSize[i]);
		if (allocation[i] != -1)
			printf("%i", allocation[i] + 1);
		else
			printf("Not Allocated");
		printf("\n");
	}
}


int main()
{
	int m; //number of blocks in the memory
	int n; //number of processes in the input queue
	int blockSize[] = {100, 500, 200, 300, 600};
```

```
        int processSize[] = {212, 417, 112, 426};
        m = sizeof(blockSize) / sizeof(blockSize[0]);
        n = sizeof(processSize) / sizeof(processSize[0]);

        firstFit(blockSize, m, processSize, n);

        return 0 ;
}
```

```
1                       212                     2
2                       417                     5
3                       112                     2
4                       426                     Not Allocated
```