Write a Program to stimulate Best fit

```
void implement bestfit(int b[], int bs, int p[], int ps)
int alloc[p], occupied[b];
for(int i=0; i<p; i++){
    alloc[i] = -1;
}
for(int i=0; i<p; i++){
    int pp = -1;
    for(int j=0; j<b; j++){
        if(bs[j] >= ps[i] && !occupied[j]){
            if(pp == -1)
                pp = j;
            else if(bs[j] < bs[pp])
                pp = j;
        }
    }
    if(pp != -1){
        alloc[i] = pp;
        occupied[pp] = 1;
    }
}

printf("\n Process no.\t Process size\t Block no\n");
for(int i=0; i<p; i++){
    printf("%d\t\t%d\t\t", i+1, ps[i]);
    if(alloc[i] != -1)
        printf("%d\n", alloc[i]+1);
    else
        printf("Not allocated\n");
}
}
```

```
int main(){
int blockSize[] = {100, 50, 30, 120, 35}; Ps[] = {10, 30, 60, 30};
int b = size(bs) / sizeof(bs[0]);
int p = size(ps) / sizeof(ps[0]);
implementBestFit(bs, b, ps, p);
return 0;
}
```

Output

Process	Process size	Block no.
1	10	2
2	30	1
3	60	4
4	30	4

Write a C program to implement worst fit.

```
#include<stdio.h>

void worstfit(int b[], int nb, int p[], int np)
{
  int alloc[np], occupied[nb];
  for(int i=0; i<np; i++)
    alloc[i] = -1;
  for(int i=0; i<nb; i++)
    occupied[i] = 0;

  for(int i=0; i<nb; i++){
    occupied[i] = 0;
  }
  int ip = -1;
  for (int j=0; j<nb; j++){
    if(bs[j] >= ps[i] && !occupied[j]){
      if (ip == -1)
        ip = j;
      else if (bs[ip] < bs[j])
        ip = j;
    }
  }

  if(ip != -1){
    allocation[i] = ip;
    occupied[ip] = 1;
    bs[ip] -= ps[i];
  }

  printf("\n Process No. \t Process Size \t Block no.\n");
  for(int i=0; i<np; i++){
    printf("%d \t\t %d \t\t", i+1, ps[i]);
    if(allocation[i] != -1)
      printf("%d\n", allocation[i] + 1);
    else
      printf("Not Allocated\n");
  }
```

```
int main(){
int bs[] = {100, 50, 30, 120, 35}, ps[] = {40, 10, 30, 60};
int b = sizeof(bs)/sizeof(bs[0]); p = sizeof(ps)/sizeof(ps[0]);
implement_worst_fit(bs, b, ps, p);
return 0;
}
```

Output:

Process No.	Process_Size	Block no.
1	40	4
2	10	1
3	30	2
4	60	Not Allocated.