#include <stdio.h>

main()

{

int p[100],a[100],n,j,t,a1,p1,i;

char c;

printf("\nenter the no of pages in main memory : ");

scanf("%d",&n);

printf("\nenter the page number for all pages : ");

for(i=0;i<n;i++)

{

scanf("%d",&p[i]);

}

printf("\nenter the arrival time for all pages : ");

for(i=0;i<n;i++)

{

scanf("%d",&a[i]);

}

printf("\nthe current pages in memory");

printf("\n\n\t\tpagenumber\t\tarrivaltime\t");

for(i=0;i<n;i++)

{

printf("\n\t\t%d\t\t\t%d",p[i],a[i]);

}

for(i=0;i<n;i++)

{

for(j=i+1;j<n;j++)

{

if(a[i]>a[j])

{

t=a[i];

a[i]=a[j];

a[j]=t;

t=p[i];

p[i]=p[j];

p[j]=t;

}

}

}

printf("\nenter the new page number and arrival time to be inserted :");

scanf("%d%d",&p1,&a1);

printf("the page %d is replaced",p[0]);

a[0]=a1;p[0]=p1;

printf("\nnew page %d is inserted in ",p[0]);

printf("the current pages in memory");

printf("\n\n\t\tpagenumber\t\tarrivaltime\t");

for(i=0;i<n;i++)

{

printf("\n\t\t%d\t\t\t%d",p[i],a[i]);

}

}

/\*

enter the no of pages in main memory : 4

enter the page number for all pages : 1 2 8 7

enter the arrival timer for all pages : 4 5 10 8

the current pages in memory

pagenumber arrivaltime

1 4

2 5

8 10

7 8

enter the new page number and arrival time to be inserted :20 20

the page 1 is replaced

new page 20 is inserted in the current pages in memory

pagenumber arrivaltime

20 20

2 5

7 8

8 10

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