#include <stdio.h>

main()

{

int p[100],r[100],n,j,t,r1,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 last reference time for all pages : ");

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

{

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

}

printf("the current pages in memory");

printf("\n\n\t\tpagenumber\t\tLast Reference Time\t");

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

{

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

}

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

{

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

{

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

{

t=r[i];

r[i]=r[j];

r[j]=t;

t=p[i];

p[i]=p[j];

p[j]=t;

}

}

}

printf("\nenter the new page number and current time :");

scanf("%d%d",&p1,&r1);

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

r[0]=r1;p[0]=p1;

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

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

printf("\n\n\t\tpagenumber\t\tlast reference time\t");

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

{

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

}

}

/\*

enter the no of pages in main memory : 4

enter the page number for all pages : 2 4 5 1

enter the last reference time for all pages : 9 2 8 0

the current pages in memory

pagenumber Last Reference Time

2 9

4 2

5 8

1 0

enter the new page number and current time :15 0

the page 1 is replaced

new page 15 is inserted

the current pages in memory

pagenumber last reference time

15 0

4 2

5 8

2 9

\*/