#include <stdio.h>

main()

{

int p[100],u[100],n,j,t,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 number of times it is used for all pages : ");

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

{

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

}

printf("the current pages in memory");

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

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

{

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

}

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

{

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

{

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

{

t=u[i];

u[i]=u[j];

u[j]=t;

t=p[i];

p[i]=p[j];

p[j]=t;

}

}

}

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

scanf("%d",&p1);

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

u[0]=1;p[0]=p1;

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

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

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

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

{

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

}

}

/\*

Enter the no of pages in main memory : 4

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

enter the number of times it is used for all pages : 9 8 3 10

the current pages in memory

pagenumber frequency

2 9

4 8

1 3

5 10

enter the new page number to be inserted :15

the page 1 is replaced

new page 15 is inserted in

the current pages in memory

pagenumber frequency

15 1

4 8

2 9

5 10

\*/