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#include <stdio.h>

int main()
{
    int flag=0,flag1=0;
    int s[10],d[10],sn,eop=1,dm,a[10][10];
    int i,j,sum=0,min,x[10][10],k,fa,fb;
    printf("Enter the number of supplies : ");
    scanf("%d",&sn);
    printf("Enter the number of demands : ");
    scanf("%d",&dm);
    printf("Enter the supply values : \n");
    for(i=0;i<sn;i++)
        scanf("%d",&s[i]);
    printf("Enter the demand values \n");
    for(j=0;j<sn;j++)
        scanf("%d",&d[j]);
    printf("Enter the cost matrix \n");
    for(i=0;i<sn;i++)
    {
        for(j=0;j<dm;j++)
        {
            scanf("%d",&a[i][j]);
        }
    }
    i=0;
    j=0;
    for(i=0,j=0;i<sn,j<dm;)
    {
        if(s[i]<d[j])
        {
            x[i][j]=a[i][j]*s[i];
            d[j]=d[j]-s[i];
            i++;
        }
        else if(s[i]>=d[j])
        {
            x[i][j]=a[i][j]*d[j];
            s[i]=s[i]-d[j];
            j++;
        }
    }
    printf("\n\n Given cost matrix is :");
    for(fa=0;fa<sn;fa++)
    {
        printf("\n");
        for(fb=0;fb<dm;fb++)
        {
            printf("%d ",a[fa][fb]);
        }
    }
}
```

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    }
    printf("\n\n Allocated cost matrix is : ");
    for(fa=0;fa<sn;fa++)
    {
        printf("\n");
        for(fb=0;fb<dm;fb++)
        {
            printf("%d ",x[fa][fb]);
            sum=sum+x[fa][fb];
        }
    }
    printf("\n\nThe transportation cost is : %d",sum);
    return(0);
}

```

### Output of transport.c

Enter the number of supplies : 4  
 Enter the number of demands : 4  
 Enter the supply values :  
 220 225 275 270  
 Enter the demand values  
 270 225 275 220  
 Enter the cost matrix  
 11 13 17 14  
 16 18 14 10  
 21 21 13 10  
 11 11 11 11

Given cost matrix is :  
 11 13 17 14  
 16 18 14 10  
 21 21 13 10  
 11 11 11 11

Allocated cost matrix is :  
 2200 650 0 0  
 0 3150 700 0  
 0 0 2925 500  
 0 0 0 2200

The transportation cost is : 12325