```cpp
//vi du 2.14 trong giao trinh
#include <iostream>
#include <stdlib.h>
using namespace std;

struct Vector
  {
   int a[10];  //các thanh phan cua vec to
   int n;  //so thanh phan cua vec to, goi la kich thuoc vec to
  };

int Tich(Vector a1, Vector b1)
  { int S = 0;
   if (a1.n != b1.n)
     { cout<<"\n Hai vecto khong cung kich thuoc";
      exit(1);
     }
        for(int i=0; i<a1.n; i++)
    S = S + a1.a[i] * b1.a[i];
   return S;
  }

Vector Tich(Vector a1, int k)
  {  Vector b;
    for(int i=0;i<a1.n;i++)
     b.a[i] = k*a1.a[i];
    b.n = a1.n;  //kich thuoc cua vec to b
    return b;
```

```cpp
    }

Vector Nhap()
{
  Vector v;
  cout<<"\nNhap kich thuoc n = ";
  cin>>v.n;
  cout<<"\nNhap cac thanh phan cua vec to: ";
  for(int i=0;i<v.n;i++)
          {       cout<<"v["<<i<<"]=";
                  cin>>v.a[i];
          }
  return v;
}


void Xuat(Vector v)
{
        for(int i=0; i<v.n; i++)
    cout<<"  "<<v.a[i];
}

int main()
{  Vector v1,v2;
  cout<<"\n Nhap vecto thu nhat :";
  v1 = Nhap();
  cout<<"\n Nhap vecto thu hai :";
  v2 = Nhap();
  cout<<"\n v1 :" ;
```

```cpp
    Xuat(v1);

    cout<<"\n v2 :" ;

    Xuat(v2) ;

    cout<<"\n Tich cua v1 va v2 la :"

                <<Tich(v1,v2);

    int k;

    cout<<"\n Nhap k ="; cin>>k;

    cout<<"\n Tich cua v1 va k la vec to ";

    v2 = Tich(v1,k);

    cout<<"\n";

    for(int i=0; i<v2.n; i++)

        cout<<"  "<<v2.a[i];

    return 0;

}
```

//Vi du 2.15 trong giao trinh

```cpp
#include <iostream>

#include <iomanip>

using namespace std;


void Nhap(int *x,int n)  //nhap day so nguyen
 {
  for(int i=0;i<n;++i)
   {
    cout<<"Phan tu "<<i<<" = ";
    cin>>x[i];
   }
```

```cpp
    }

  void Nhap(float *x,int n)  //nhap day so thuc
   {
    for (int i=0;i<n;i++)
     {
      cout<<"Phan tu "<<i<<" = ";
      cin>>x[i];
     }
   }


int Max(int x,int y)  //max 2 so nguyen
   {
    return x>y?x:y;
   }
float Max(float x,float y)  //max 2 so thuc
   {
    return x>y?x:y;
   }
int Max(int *x,int n)  //max cua day so nguyen
   {
    int s = x[0];
    for(int i=1;i<n;++i)
     s = Max(s,x[i]);
     return s;
   }
float Max(float *x,int n)  //max cua day so thuc
   {
```

```cpp
    float s = x[0];
    for(int i=1;i<n;++i)
     s = Max(s,x[i]);
    return s;
    }
int main()
 {
   int a[20],n,ni,nd,maxi;
   float x[20],maxd;
   cout<<"\n So phan tu nguyen n: ";
   cin>>ni;
   cout<<"\n Nhap day so nguyen: ";
   Nhap(a,ni);
   cout<<"\n So phan tu so thuc: ";
   cin>>nd;
   cout<<"\n Nhap day so thuc: ";
   Nhap(x,nd);
   maxi = Max(a,ni);
   maxd = Max(x,nd);
   cout<<"\n Max day so nguyen = "<<maxi;
   cout<<"\n Max day so thuc = "<<maxd;
   return 0;
 }
```