Create a function called sum () that returns the sum of the elements of an array. Make this function into a template so it will work with any numerical type. Write a main () program that applies this function to data of various type.

```
#include <iostream>
#define SUCCESS 0
using namespace std;
template < typename T>
T sum(T array[],int n)
{
T s = 0;
for(int i = 0; i < n; i++)
  s+=array[i];
return s;
int main()
int num[] = \{4,5,6\};
float fnum[] = {4.0,3.0,5.5};
 cout << sum(num,3) << endl;</pre>
 cout << sum(fnum,3) << endl;
return SUCCESS;
}
#include<iostream>//or
using namespace std;
template<typename T>
T sum(T *a,int n)
  T addition=0;
 for(int i=0;i<n;i++)
    addition=addition+*(a+i);
  return addition;
}
```

```
int main()
{
    int num[]={3,5,14,23,26};
    cout<<"The sum of integers is: "<<sum(num,5)<<endl<<endl;
    float fnum[]={3.5,4.3,35.46,24.67,45.66};
    cout<<"The sum of floats is: "<<sum(fnum,5)<<endl<<endl;
    return 0;
}</pre>
```