

```

#include <iostream>
using namespace std;
int main()
{
int H0, H1, M0, M1, H2, M2;
do
{
cout<<"When did you fall asleep?"<<endl;
cin>>H0;
cin>>M0;
}while ((H0<0 || H0>=24)||(M0<0 || M0>=60));
do
{
cout<<"When did you wake up?"<<endl;
cin>>H1;
cin>>M1;
}while ((H1<0 || H1>=24)||(M1<0 || M1>=60));
if(H1<H0)
{
H2=(int)((1440-(H0*60+M0)+(H1*60+M1))/60);
M2=((1440-(H0*60+M0)+(H1*60+M1)) % 60);
}
else if(H1>H0)
{
H2=(int)((((H1*60+M1)-(H0*60+M0))/60);
M2=((((H1*60+M1)-(H0*60+M0)) % 60);
}
else
{
if(M1<M0)
{
H2=23;
M2=60-M0+M1;
}
else
{
H2=0;
M2=M1-M0;
}
}
cout<<"you slept "<<H2<<" hours and "<<M2<<" minutes"<<endl;
return 0;
}

```