Problem: The Time in words

Given the time in numerals we may convert it into words, as shown below:

Write a program which prints the time in words for the input given in the format mentioned above.

**Input Format**

There will be two lines of input:  
, representing the hours  
, representing the minutes

**Constraints**

**Output Format**

Display the time in words.

**Sample Input**

5

47

**Sample Output**

thirteen minutes to six

Solution

string translate(int number) //this function returns the numbers into alphabets

{

string str;

if(number==10) {str="ten"; return str;}

else if(number==11) {str="eleven"; return str;}

else if(number==12) {str="twelve"; return str;}

else if(number==13) {str="thirteen"; return str;}

else if(number/10==0) //single digit nubmer

{

switch(number)

{

case 1: str+="one"; break;

case 2: str+="two"; break;

case 3: str+="three"; break;

case 4: str+="four"; break;

case 5: str+="five"; break;

case 6: str+="six"; break;

case 7: str+="seven"; break;

case 8: str+="eight";break;

case 9: str+="nine"; break;

}

}

else //two digit case

{

switch(number/10)

{

case 10: str="ten"; break;

case 11: str="eleven"; break;

case 12: str="twelve"; break;

case 13: str="thirteen"; break;

case 1: str=translate(number%10)+"teen"; break;

case 2: str="twenty "+translate(number%10); break;

case 3: str="thirty "+translate(number%10); break;

case 4: str="forty "+translate(number%10); break;

case 5: str="fifty "+translate(number%10); break;

case 6: str="sixty "+translate(number%10); break;

case 7: str="seventy "+translate(number%10); break;

case 8: str="eighty "+translate(number%10); break;

case 9: str="ninety "+translate(number%10); break;

//case 0: str="twenty"+translate(number%10); break;

}

}

return str;

}

int main()

{

int hour, minutes;

cin>>hour >>minutes;

//Processing the time

if(minutes==15) { cout<<"quarter past "<<translate(hour);}

else if(minutes==1) {cout<<translate(minutes)<<" minute past "<<translate(hour); }

else if(minutes==0) {cout<<translate(hour)<<" o' clock"; }

else if(minutes==45) { cout<<"quarter to "<<translate(hour+1);}

else if(minutes==30) {cout<<"half past "<<translate(hour); }

else if(minutes<30) {cout<<translate(minutes)<<" minutes past "<<translate(hour);}

else if(minutes>30) {cout<<translate(60-minutes)<<" minutes to "<<translate(hour+1);}

}

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