#include <stdio.h>

#include <conio.h>

#include <math.h>

void main()

{

repeat:

{

//Simple Variable Declaration

char choice;

long int number;

long int variable1,numOfDigits = 0,variable2,power,num2,num3,num4,arr,variable3;

int digits[20];

//Asking for the number from the user

printf("\nenter the number:\t");

scanf("%ld",&number);

//Counting the number of digits

for ( variable1 = 1; number/variable1>0;variable1 = variable1\*10)

{

numOfDigits++;

}

// Maximum capacity of my program was till 8 digits

if (numOfDigits>=9)

{

printf("\n\n\n INVALID ENTRY!!!");

goto end;

}

// Saving the digits in digits array

//take Example 325 side by side for working

for (variable2 = 0;variable2<=numOfDigits-1;variable2++)

{

// Use percentage %

// i did n't know about percentage when i wrote this code

num2 = number/10;

num3 = num2\*10;

num4 = number - num3;

digits[variable2] = num4;

number = num2;

}

// digits[0] = 5,digits[1] = 2,digits[2] = 3

// variable3 used instead of (numberOfDigits - 1)

variable3 = numOfDigits - 1;

//variable3 = 2

printf("\n");

// here Starts my foolish first program code

for (;variable3>=0;variable3--)

//for every digit

{

//variable 3 in first iteration is 2 so variable3 + 1 = 3 therefore true if condition for first iteration

//variable 3 in second iteration is 1 so variable3 + 1 = 2 therefore false

//variable 3 in third iteration is 0 so this is true for

if (variable3+1 != 2 && variable3+1 != 5 && variable3+1 != 7 && variable3+1 != 9)

{

// this is false as numOfDigits is less than 5

// this is false for third iteration digits[variable3 + 1] !=1

if ((variable3+1 == 4 || variable3+1 == 1) && digits[variable3+1] == 1 && numOfDigits >= 5)

goto endi;

// as digits[2] = 3 for first iteration so prints three

// as digits[0] = 5 for third iteration prints five

switch( digits[variable3])

{

case 1 : printf("one ");

break;

case 2 : printf("two ");

break;

case 3 : printf("three ");

break;

case 4 : printf("four ");

break;

case 5 : printf("five ");

break;

case 6 : printf("six ");

break;

case 7 : printf("seven ");

break;

case 8 : printf("eight ");

break;

case 9 : printf("nine ");

break;

}

//prints hundred

if (variable3+1 == 6 && digits[variable3] != 0)

printf("lacs ");

if( variable3+1 == 8 && digits[variable3] != 0)

printf("crore ");

if ( variable3+1 == 4 && digits[variable3] != 0)

printf("thousand ");

if (variable3 + 1 == 3 && digits[variable3] != 0 )

printf("hundred ");

if (variable3+1 == 1)

printf(" ");

endi:{};

}

// this is false in first iteration as variable3 + 1 == 3

// this is false for second iteration as digits[1] != 1;

// false for third iteration

if ((variable3 +1 == 2||variable3+1==5||variable3+1==7|| variable3+1 ==9) && digits[variable3] == 1)

{

switch(digits[variable3-1])

{

case 1: printf("eleven ");

break;

case 2: printf("twelve ");

break;

case 3:printf("thirteen ");

break;

case 4: printf("forteen ");

break;

case 5: printf("fifteen ");

break;

case 6 : printf("sixteen ");

break;

case 7 :printf("seventeen ");

break;

case 8 : printf("eighteen ");

break;

case 9 :printf("ninteen ") ;

break;

case 0 : printf("ten ");

}

if (variable3+1 == 5)

printf("thousand ");

if (variable3 +1 == 7)

printf("lac ");

if (variable3 + 1 == 9)

printf("crore ");

if (variable3+1 == 2)

goto end;

}

// this also is false for first iteration

// this is true for second iteration therefor prints twenty

// this is false for third iteration

if ((variable3+1 ==2||variable3+1 ==5||variable3+1==7||variable3+1 == 9 ) && digits[variable3] !=1 )

{

switch(digits[variable3])

{

case 2: printf("twenty ");

break;

case 3: printf("thirty ");

break;

case 4: printf("fourty ");

break;

case 5: printf("fifty ");

break;

case 6: printf("sixty ");

break;

case 7: printf("seventy ");

break;

case 8: printf("eighty ");

break;

case 9: printf("ninty ");

}

if (variable3+1 == 5 && digits[variable3-1] == 0)

printf("thousand ");

if (variable3 +1 == 7 && digits[variable3-1] ==0)

printf("lac ");

if (variable3 + 1 == 9 && digits [variable3-1] == 0)

printf("crore ");

}

}

end:

printf("\n\n again?(y or n)\t ");

choice = getche();

if (choice == 'y' || choice == 'Y')

goto repeat;

}

}