#include<stdio.h>

#define MAX 1000

int main(){

   char binaryNumber[MAX],hexaDecimal[MAX];

   int temp;

   long int i=0,j=0;

   printf("Enter any number any binary number: ");

   scanf("%s",binaryNumber);

   while(binaryNumber[i]){

      binaryNumber[i] = binaryNumber[i] -48;

      ++i;

   }

   --i;

   while(i-2>=0){

       temp =  binaryNumber[i-3] \*8 + binaryNumber[i-2] \*4 +  binaryNumber[i-1] \*2 + binaryNumber[i] ;

       if(temp > 9)

            hexaDecimal[j++] = temp + 55;

       else

            hexaDecimal[j++] = temp + 48;

       i=i-4;

   }

   if(i ==1)

      hexaDecimal[j] = binaryNumber[i-1] \*2 + binaryNumber[i] + 48 ;

   else if(i==0)

      hexaDecimal[j] =  binaryNumber[i] + 48 ;

    else

      --j;

   printf("Equivalent hexadecimal value: ");

   while(j>=0){

      printf("%c",hexaDecimal[j--]);

   }

   return 0;

}

**Sample output:**

Enter any number any binary number: 1010011011100011110

001001111011110001000100011101110111011110

Equivalent hexadecimal value: 14DC789EF111DDDE