#include <iostream>

using namespace std;

int main()

{

int n[4] = {0,0,0,0},len, i,x, extra, bcount = 0, hcount = 0;

string bin;

cin >> bin;

len = bin.size();

extra = len % 4;

string hex(len/4 + (extra || 0), '0');

if(extra)

{

for(i=4-extra;i<=3;i++)

{

n[i] = bin[bcount]-48;

bcount++;

}

x = n[0]\*8 + n[1]\*4 + n[2]\*2 + n[3]\*1;

if(x>9)

hex[hcount] = x + 55;

else

hex[hcount] = x + 48;

hcount++;

}

while(bin[bcount] != '\0')

{

for(i=0;i<4;i++)

{

n[i] = bin[bcount]-48;

bcount++;

}

x = n[0]\*8 + n[1]\*4 + n[2]\*2 + n[3]\*1;

if(x>9)

hex[hcount] = x + 55;

else

hex[hcount] = x + 48;

hcount++;

}

cout << hex << endl;

return 0;

}