//2.63

w=sizeof(int)\*8

unsigned srl(unsigned x,int k)

{

unsigned xsra=(int)x>>k;

return xsra&((1<<(w-k))-1);

}

int sra(int x,int k)

{

int xsrl=(unsigned)x>>k;

int mask =1<<(w-k-1);

return (xsrl^mask)-mask;

}

//2.70

int fits\_bits(int x,int n)

{

x=x<<1;

x=(unsigned)x>>1;

x=x>>n;

return !x;

}

//2.77

A.x<<4+x

B.x-(x<<3)

C.(x<<6)-(x<<2)

D.(x<<4)-(x<<7)

//2.79

int mul3div4(int x)

{

x=((x<<1)+x);

((x&INT\_MIN)&&(x=x+(1<<2)-1));

return x=x>>2;

}

//2.82

A. false when x=INT\_MIN

B. true, left=x<<4-x+y<<4+y=x\*16-x+y\*16+y=x\*15+y\*17

C. true, ~x+~y+1=-x+-y-1=-(x+y)-1=~(x+y)

D. true, (ux-uy)==-(unsigned)(y-x)

-(ux-uy)==(unsigned)(y-x)

(ux-uy)==(unsigned)(x-y)

E. true,x>>2<<2==x&~0x3==x-(00/01/10/11)

00/01/10/11>=0

((x>>2)<<2)<=x