





作业-2年 9. W int x = -32768 Ox ffffff80 ... 0xffff8000 in short y=522 0x.020a .... 131 unsigned == 65530 0x0000fff9 - 0x0000fff9 4) char c = '@' 0x0040 0x0000fffa (5) float a = -1.1 Oxbf8ccccd 161 double b=10.5 Ox 4025 0000 0000-0000. 一切の変が 10. in int x: FFFFF0006 H x= 65526 12) short y: DFFCH 9= -8196 (3) unsigned 2: FFFFFFAH == 65530 41 char c: 2AH C=42: 1 (5) float a: C448 0000H a= -800 6) double b: CO24 80,00-0000 0000 b= +0.25. 21-32168-52187 41-32108-3210. 11. 17 char my string 1: 68H 65H 6CH 6CH -6FH 2CH 17H 6FH 12H 6CH 64H DAH OOH hello, world (2) char \* string 2: 71H 65H 20H 61H 72H 65H 20H 68H 61H 70H 70H 79H 21H 00H we are happy!

12. (1) char \* my string! = "./myfile"

0x2e Ox2f 0x6d 0x79 0x66 0x69 0x6c 0x65

(2) char \*mystring2 = "OK, good!"

0x4f 0x4b 0x2c 0x67 0x6f 0x6f 0x64.

18. strlen(str 2) > strlen(str 1) 时结果不正确 strlen 返回类型为unsigned, 始终为大于等于0的值 与0比较时

当str2数长, strlen(str1)-strlen(str2)版为TRU 出现错误。

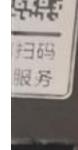
21. M=24-1=15, N=22-4.

22. (1) 0-65535 0-2-5-2 (2) 2-5-1 -1-2-5

(5) 最大正教: (1-21): 21 最小正教: 2-15

100 H22 H21 H31 H04 H33 H11 :5 prints " norto (2)

100 HTT 1164 HOL 1102 HIS 11994



≡N



23.4+1.75 = 1.40.111B S=0, e=127+0=127. f=110 0-0B +1.75 = 0x3fd00000. w+19 = 10011 B. S=0, e= 12744=131, f=00110-0B +19: 0x8/980000 0x41.980000. 131-8=-0.00|B, S=1, e=127-3=124, f=0 - 1 - 0x 000000 - - 8 = 0xbe 000000 (4) 258= 100000010B, S=0, E=127+8=135, f=00000010-08 258= 0x43810000 175. 1. S.I. 24. 4098 = 0x00001002 = 0x45801000 = 0100000 相同,因为 e-bias=12; +





28.大海 100日 101日 102H 103H: 104H 105H 内容 beH OOH MOD HOOH DOH DOH 106H 107H 108H 109H 100H 106H 106H 100H DOH 40H FOH OOH 00H 10eH 10ff 110H 111H 112H 113H 14H 115H 4100 64H 3 BH 小岩 100H 101H 102H 103H -- 108H 109H 100H PBH 内容 beH .0014 00H for 40H HGO OOH HOO 112H 113H DOH ----28 479 X : 0x 0000 1002.

29.表示。 X: X Y Y X+Y X+Y OF SF CF X-Y X-Y OF SF O 无符号 OxBO 150 OxX 116 OxX 60 10.1 0x24 36 000 光符号 Ox7E 126 Ox8D B Ox0B 249 1.1 0 0x21 30 000 新符号 Ox TE 126 Ox8D B Ox0B -37 1.1 0 0x21 33 000

000,0804.0:

31. 不能: 改为 unsigned long long arraysize = ount \*(unsigned long long) if Carraysize >INT\_MAX) size of lint): return -1; int \* myarray = (int\*) malloc (arraysize); ロ(X-1<0) |1 X>O X=INT\_MIN时为假 ·51·X<011-X<0 水真。万则, X70 及及-X20, 满足X20时 由于负额在INT范围内多于正数,一次色为负额或日本成么 (4) X2011-X20 X=INT\_MIN日本为假 51 X & Out!=15 || (X << 28) <0 ,!=优先级高, X=0的放 (6) X > y == (-X < -y) X= INT\_MIN, y=0 为假 17) ~ x + ~ y == ~ (x+y) 左= -x y-2, 右= -x y-1 恒假 18 (int) (ux-uy) == - (y-x) jx 1 . toto ux-uy= iux ly) tintux-uy=[x-y]x+=[x]x+=[-y]x+=[-y+x]x=[-(y-x)]x+ 49×(x>>2) «2) «X (9) ((X772) 42) 4= 0x8 永真、末2位为正权, 消除仅导致或小。 (10)(X\*4) + (y\*8) = (X«2) + (y«3) 水直。等价(\*2K,从从)

35.110 dx \*dx >= 0 承真,符号位一次为0,单独计算得。

(double)(floab)X == dx X=0xHffHf/股 (3) dx+dy=(double)x+y X=y=0x HffHH/股 (a)(dx+dy)+dx == dx+(dy+dz) 美真, double

可精确表示的。且对阶时阶段不足52位。

15) dx\*dy\*dz==dz\*dx\*dy 非承真, 注释可能到 40 dx/dx==dy/dy dx=0, dx/dx=NAN, 假

J. 22 (5.2.) 5.2.) 55.2.

於真。其2%.如医积、滴腔

(10) (1, 14) + (1, 16) = (2, 16) + (2, 16) (16)



41. (116) (3) (4) (5) (6) #include < stdio.hz typedet unsigned floorb-bits; float\_bits float\_abs (float\_bits f)! if ((f >> 23 & Oxff) == 0xff && (f & 0x7fffff) return f; if (f m31) 13 (14 100= q10) ] ( = 50) ] 15 return f & 0x1ffffff; it many (Sup = = 0) 44 / (Care) float\_bits float\_neg [float\_bitsf] : if (157723 & 0xff) == 0xff && (f & 0x 1fffff.)) 会 return f; les mi return f ^ 0x80000000; float bits float neg (float bits f) if (#1723 40xff)== 0xff && (+ & 0x [+ 1+1+1]) return f; if(+>> 31)





### Float\_ Dits # Hoods\_ half (floats\_ bits f) {

unsigned sign + 7731;

unsigned exp=+7723 & 0x+1;

unsigned trac = f & 0x1+1+1+1;

if ((exp=0x+1) && trac)

return f:

if ((exp=0) || (exp==0x+1) && (frac == 19)+1

return f:

if ((exp==0) && frac)

return sign «31 | frac >>1;

exp=(exp \* 0x+1) & 0x+1;

if (exp)

return sign «31 | exp.«23 | frac;

return sign «31 | frac | 0x800000)-7>1

float

0:38

.

-31

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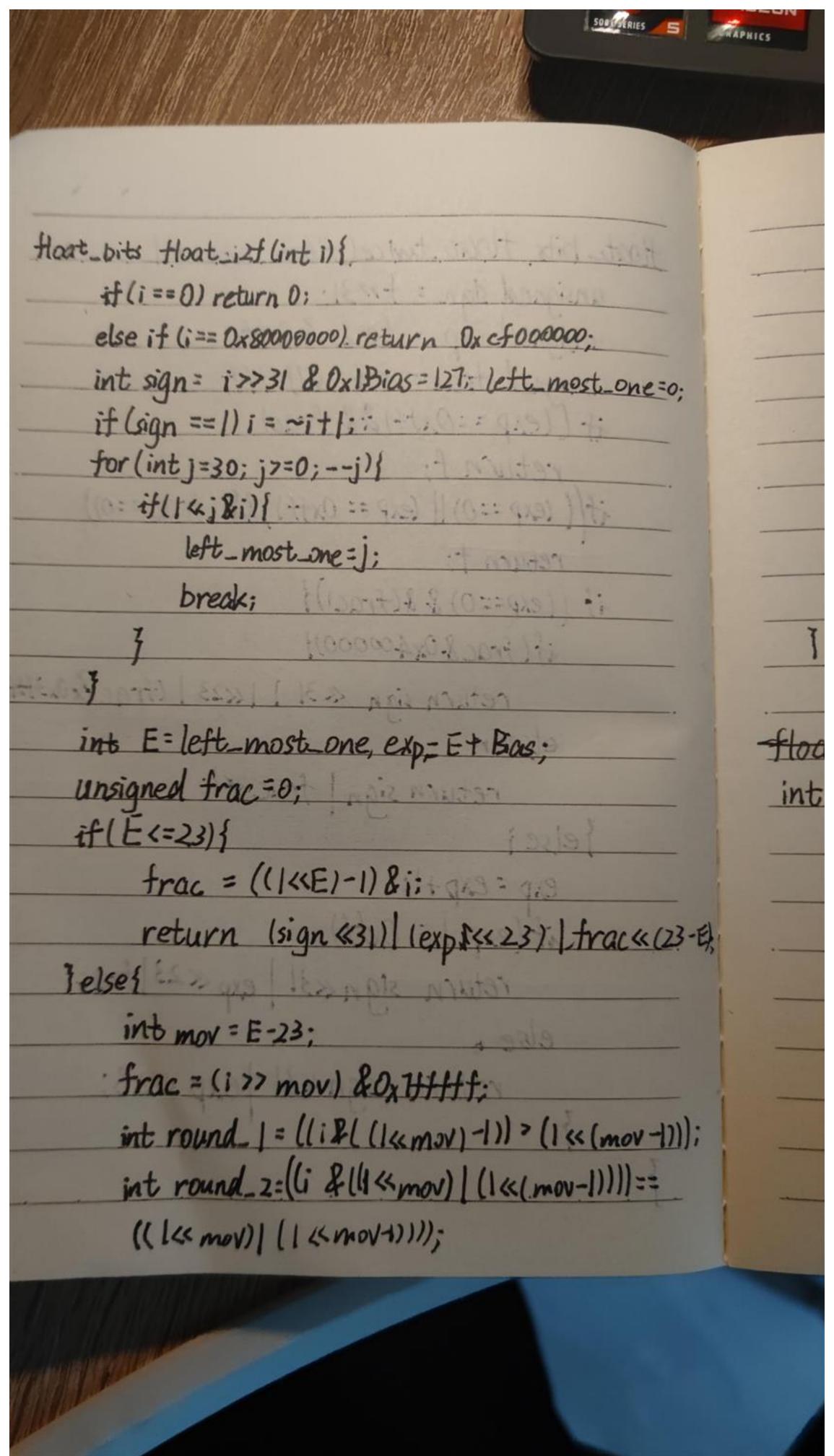
4.00

:((6)

11111



float bits float twice (float bits f) unsigned sign = f7731; unsigned exp = f >> 23 & Oxft; unsigned trac: f& 0x7fffff; if [lexp == Oxtf)&& frac): return f; (1--- 0= x 1 :08= 1 306) 107 if ( (exp == 0) | (exp == 0xff) ) && (frac == 0)) if ((exp==0) & &(frac)){ if (frac & 0x400000){ return sign «31 1 1 «23 | (frac & 0x3 +++++)/4; return sign | frac << 1; lelse } exp = exp+1; it (exp! = Oxff) return sign & 31 exp & 23 frac; return sign 431 | exp «23; - (((6, 10.45) ] ((100 5) 1))





if (round-1) round 2) { tractt: trace : trac 6 /13-15 1. if (frac & 0x80000000) { frac = frac & Ox1+Hff; exptt; return (sign (31) | (exp (23) | frac; repury trac; int float\_f2i(float\_bits f){ int 5= ut >731; int E= uf >> 23 & Oxff; int frac= ut && attifff, if (E > 158){ return 0x80000000u; Jelse if (E<127)1 return 0; Telse {



