#define \_CRT\_SECURE\_NO\_WARNINGS 1

#include<stdio.h>

typedef struct timee

{

int h;

int m;

int s;

}t;

int main()

{

int n;

scanf("%d", &n);

t time[3];

int i = 0;

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

{

do

{

scanf("%d %d %d", &time[i].h, &time[i].m, &time[i].s);

} while (time[i].h > 24 || time[i].h < 0 || time[i].m>60 || time[i].m < 0 || time[i].s>60 || time[i].s < 0);//判断时间合法性

}

int j = 0;

for (j = 0; j < n - 1; j++)

{

for(i=0;i<n-j-1;i++)

{

if (time[i].h > time[i+1].h)

{

t tim = time[i];

time[i] = time[i + 1];

time[i + 1] = tim;

}

}

}

////处理分钟

for (j = 0; j < n - 1; j++)

{

for (i = 0; i < n - j - 1; i++)

{

if ((time[i].h == time[i + 1].h) && (time[i].m > time[i + 1].m))

{

t tim = time[i];

time[i] = time[i + 1];

time[i + 1] = tim;

}

}

}

//处理秒钟

for (j = 0; j < n - 1; j++)

{

for (i = 0; i < n - j - 1; i++)

{

if ((time[i].h == time[i + 1].h) && (time[i].m == time[i + 1].m) && (time[i].s > time[i + 1].s))

{

t tim = time[i];

time[i] = time[i + 1];

time[i + 1] = tim;

}

}

}

printf("\n");

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

{

printf("%0.2d:%0.2d:%0.2d\n", time[i].h, time[i].m, time[i].s);

}

return 0;

}

//时间合法条件已补充！



