#include <stdio.h>

#include <string.h>

#define TRUE 1

#define FALSE 0

/\*

struct vitalstat

{

char name [19] , ssnum[11];

unsigned int vs\_day: 5, vs\_month : 4, vs\_year : 11;

unsigned UScitizen : 1;

char nationality[20];

char city\_of\_birth[20];

};

\*/

struct vitalstat

{

char name [19] , ssnum[11];

unsigned int vs\_day: 5, vs\_month : 4, vs\_year : 11;

unsigned UScitizen : 1; /\* Bit field for U.S. citizenship \*/

union

{

char nationality[20];

char city\_of\_birth[20];

}location;

};

int is\_yes()

{

char answer[64];

while(1)

{

scanf("%s",answer);

switch (answer[0])

{

case 'y':

case 'Y': return TRUE;

case 'n':

case 'N':

return FALSE;

default: printf( "Please answer Y or N\n");

}

}

}

int double\_check( char \*s)

{

printf( "Is '%s' correct? (Y or N) ", s);

return is\_yes();

}

void get\_city\_info( struct vitalstat \*pvs)

{

int answered = FALSE;

printf("Are you a U.S. citizen? ");

pvs->UScitizen = is\_yes();

while (!answered) //while’dan çıkmak için answered = 1 olmalı

if (!pvs->UScitizen) //eger UScitizen=0 ise

{

printf("What is your nationality?");

scanf("%s",pvs->location.nationality);

answered = double\_check( pvs->location.nationality);

}

else /\* UScitizen \*/

{

printf("Enter city of birth: ");

scanf("%s",pvs->location.city\_of\_birth);

answered =

double\_check( pvs->location.city\_of\_birth );

}

}

void write\_person\_info(struct vitalstat pvs)

{

printf("name surname:%s %s\n",pvs.name, pvs.ssnum);

printf("day:%d %d d\n",

pvs.vs\_day,pvs.vs\_month,pvs.vs\_year);

if (pvs.UScitizen==1) // This condition is redundant

printf("city\_of\_birth :%s\n",pvs.location.city\_of\_birth);

else

printf("nationality :%s\n",pvs.location.nationality);

// printf("%s\n",pvs.location.nationality); /\* or \*/

// printf("%s\n",pvs.location.city\_of\_birth); /\* is enough \*/

}

int main()

{

struct vitalstat person;

int day,month,year;

printf("give name and surname\n");

scanf("%s %s",person.name,person.ssnum);

printf("give date of birth\n");

scanf("%d %d %d",&day,&month,&year);

person.vs\_day=day;

person.vs\_month=month;

person.vs\_year=year;

get\_city\_info(&person);

write\_person\_info(person);

return 0;

}