

Blood type - two alleles

combined A B O

OO

Parent 1

Parent 2

OA

AO

BB

OB

↓

↓

child

AO

either AB

AA

or OB

AB

Parent 1

Parent 2

BO

AO

OB

BA

↓

↓

child

BB

AO || OB || AB || OO

type def struct person

{

struct person *parents [2];

char alleles [2];

}

person;

gen 0

Family

Create Family(3)

creates
the

Family pointer

parent	parent
allele	allele

B O

gen 1

parent	parent
allele	allele

A O B

parent	parent
allele	allele

A O

gen 2

NULL
AA/AA

G A

NULL
AA/AA

A B

NULL
AA/AA

AA

NULL
AA/AA

BO

5<555555

(61<555555+1)*3

allele [0]

allele [1]

(new person, parents [0])

new person, parents [0]

new person [1]

new person, allele [0]

new person [1]

