```
\frac{Union}{A = \{1, 2, 3\}}
      B = {3,43
   AUB = {12,3,43 40B = $3$
 bool exists (vector (int > v, int q)
         for (int i=0; i < v. size(); ++i) }
                if (v[i] == 9) {
        return fabe;
 void union 1 (vector (int > & a, vector (int > a b)
     vector (int) c;
     for (int 120; 1(a, size(); ++i) }
          c. push-back (atij);
      for (int i=0; ic b. size (); ++i) {
           if (exists (a, bli])) {
                c. push-back (blid);
```

```
3

Viid intersect (vector (int 7 a, Nector (int 7 b)

vector (int > c;
for (int izo; i < a. size(); ++i) {
    if (exists (b, a[i])) {
        c.push-back (a[i]);
    }

3

3
</pre>
```

```
Str: 1 am not sure of it — 17)

query: amp "m not sure"

surput: yes, 2. "am ng" "am"

bool match (char* s, char* q, int l)

for (int i=0; icl; ++i) {

if (S[i]!= 9[i]) {

return false;
}
```

```
return time;
 S = "This 1's so great
 9 = "This is so
 9 = " Jh"
 q = "This is crazy"
int find (chan * s, int lens, chan *9, int leng)
} vector ( int ) pos;
     for (int i=0; ix lens-leng; ++i) }
          if (-matches (25[i], q, leng)) {

pos. push-lade (i):

seturn i;
                                              sliJ
```

```
567890123454
         s[0]='i'
                                      2 S[1] | S | Pointer
2 S[1] | S+1 | Kultimatice
                                      & scoj
         5[7]='t'
                                       L S [7]
                01234567891011213
           abbedeff ff d3x4
    Str:
void ss (charxs, int legs charks, int & p, int & l)
        char C1 = C = S[0]; cument

int p1 = p = 0;

int l1 = l = 1;
         for (int i=1; é(lens; ++i) {

\begin{array}{c}
4 \left( \begin{array}{c} SliJ == c1 \\
++l1; \\
4 \left( l1 > l \right) \\
\rho = \rho1; \\
l = l1; \\
\end{array}

connect
```

Write a class to store the name and address of an individual.

name

int mani (int argc, Chanker argr)

Person p("Thon");

p. Sef-addren ("2000 Simes ...");

cont « p « endl;

Person q(1);

cont « (p == q) « endl;

...

class Person {

protected:

String name;

String addr;

public:

Person () {}

Person (const strings name) {

this > name = name;

```
Person (unst Person k p) {
           name = p. name;
           addr = b. addr;
     void set-address (const Hering & addr) }
            thin - addr = addr;
     friend Diream & operator K (Osheam & OS, court Personl
     burl operator == (const Person & p) {
       return (name == p.name & addr == p.addr);
3;
oskeand sperator ( ( oskeank os, corst besont p)
         os « p. name « endl;
        os cc p. addr;
       return os;
```