#include <iostream>

#include <string>

#include <set>

#include <iterator>

using namespace std;

int main()

{

string s;

set <char> m,m1;

int i,j;

cout << "Input s" << endl;

getline(cin, s);

cout << "Your line" << endl;

cout << s << endl;

for (i = 0; (!isspace(s[i])) && (s[i] != '\0'); i++)

switch (s[i])

{

case '0': {m.insert('0'); break;}

case '1': {m.insert('1'); break;}

case '2': {m.insert('2'); break;}

case '3': {m.insert('3'); break;}

case '4': {m.insert('4'); break;}

case '5': {m.insert('5'); break;}

case '6': {m.insert('6'); break;}

case '7': {m.insert('7'); break;}

case '8': {m.insert('8'); break;}

case '9': {m.insert('9'); break;}

}

if (s[i] == '\0')

exit;

while (isspace(s[i]))

i++;

while (s[i] != '\0')

{

if (s[i] != ' ')

{

for (j = i; (!isspace(s[j])) && (s[j] != '\0'); j++)

if (m.find(s[j]) != m.end())

switch (s[j])

{

case '0': {m1.insert('0'); break;}

case '1': {m1.insert('1'); break;}

case '2': {m1.insert('2'); break;}

case '3': {m1.insert('3'); break;}

case '4': {m1.insert('4'); break;}

case '5': {m1.insert('5'); break;}

case '6': {m1.insert('6'); break;}

case '7': {m1.insert('7'); break;}

case '8': {m1.insert('8'); break;}

case '9': {m1.insert('9'); break;}

}

i = j; m = m1;

}

else

{

i++;

if (s[i+1]!=' ')

m1.erase(m1.begin(), m1.end());

}

}

cout << "New set: ";

copy(m.begin(), m.end(), ostream\_iterator<char>(cout, " "));

cout << endl;

return 0;

}