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# 1

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| --- |
| #include <bits/stdc++.h>  using namespace std;  typedef long long ll;  class point  {      int x;      int y;  public:      point(int xx = 0, int yy = 0)      {          x = xx;          y = yy;      }      friend double operator-(const point &a, const point &b);      friend ostream &operator<<(ostream &out, const point &a);  };  double operator-(const point &a, const point &b)  {      double d = sqrt(pow((1.0 \* a.x - b.x), 2) + pow((1.0 \* b.y - a.y), 2));      return d;  }  ostream &operator<<(ostream &out, const point &a)  {      out << "[" << a.x << ',' << a.y << ']';      return out;  }  int main()  {      ios::sync\_with\_stdio(false);      cin.tie(0);      cout.tie(0);      point p1(2, 1), p2;      double d = p1 - p2;      cout << p1 << "口" << p2 << "="  << d << endl;      return 0;  } |
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# 2

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| --- |
| #include <bits/stdc++.h>  using namespace std;  typedef long long ll;  class Time  {  private:      int hour;      int minute;      int second;      ll allsecond;  public:      Time(int h = 0, int m = 0, int s = 0)      {          hour = h;          minute = m;          second = s;          allsecond = 3600 \* h + 60 \* m + s;      }      Time(Time &a)      {          hour = a.hour;          minute = a.minute;          second = a.second;          allsecond = a.allsecond;      }      friend Time operator+(Time &a, int s);      friend Time operator-(Time &a, int s);      friend ostream &operator<<(ostream &out, const Time &a);      friend Time operator++(Time &a);      friend Time operator--(Time &a);  };  Time operator++(Time &a)  {      a = a + 1;      return a;  }  Time operator--(Time &a)  {      a = a - 1;      return a;  }  ostream &operator<<(ostream &out, const Time &a)  {      out << a.hour << " hour " << a.minute << " minute " << a.second << " second ";      return out;  }  Time operator+(Time &a, int s)  {      a.allsecond += s;      a.second = a.allsecond % 60;      a.minute = (a.allsecond / 60) % 60;      a.hour = (a.allsecond / 3600) % 24;      return a;  }  Time operator-(Time &a, int s)  {      a.allsecond -= s;      if (a.allsecond < 0)          a.allsecond += 24 \* 3600;      a.second = a.allsecond % 60;      a.minute = (a.allsecond / 60) % 60;      a.hour = (a.allsecond / 3600) % 24;      return a;  }  int main()  {      ios::sync\_with\_stdio(false);      cin.tie(0);      cout.tie(0);      Time t(0, 5, 1);      cout << "jianjianjianjianjianjianjianjianjianjianjianjian" << endl;      for (int i = 0; i < 500; i++)      {          --t;          cout << t << endl;      }      cout << "jiajiajiajiajiajiajiajiajiajiajiajiajiajia" << endl;      for (int i = 0; i < 200; i++)      {          ++t;          cout << t << endl;      }      cout << "+2+2+2+2+2+2+2+2+2+2+2+2+2+2+2+2+2+2+2+2" << endl;      for (int i = 0; i < 50; i++)      {          t = t + 2;          cout << t << endl;      }      cout << "-60-60-60-60-60-60-60-60-60-60-60-60-60-60-60-60" << endl;      for (int i = 0; i < 20; i++)      {          t = t - 60;          cout << t << endl;      }      return 0;  } |
| Output：  jianjianjianjianjianjianjianjianjianjianjianjian  0 hour 5 minute 0 second  0 hour 4 minute 59 second  0 hour 4 minute 58 second  0 hour 4 minute 57 second  0 hour 4 minute 56 second  0 hour 4 minute 55 second  0 hour 4 minute 54 second  0 hour 4 minute 53 second  0 hour 4 minute 52 second  0 hour 4 minute 51 second  0 hour 4 minute 50 second  0 hour 4 minute 49 second  0 hour 4 minute 48 second  0 hour 4 minute 47 second  0 hour 4 minute 46 second  0 hour 4 minute 45 second  0 hour 4 minute 44 second  0 hour 4 minute 43 second  0 hour 4 minute 42 second  0 hour 4 minute 41 second  0 hour 4 minute 40 second  0 hour 4 minute 39 second  0 hour 4 minute 38 second  0 hour 4 minute 37 second  0 hour 4 minute 36 second  0 hour 4 minute 35 second  0 hour 4 minute 34 second  0 hour 4 minute 33 second  0 hour 4 minute 32 second  0 hour 4 minute 31 second  0 hour 4 minute 30 second  0 hour 4 minute 29 second  0 hour 4 minute 28 second  0 hour 4 minute 27 second  0 hour 4 minute 26 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| #include <bits/stdc++.h>  using namespace std;  typedef long long ll;  class Set  {  private:      int arr[100];      int size;  public:      Set()      {          memset(arr, 0, sizeof(arr));          size = 0;      }      Set(Set &a)      {          for (int i = 0; i < a.size; i++)          {              arr[i] = a.arr[i];          }          size = a.size;      }      bool insert(int x)      {          if (size >= 100)              return false;          int wei = lower\_bound(arr, arr + size, x) - arr;          if (arr[wei] == x)              return false;          arr[size++] = x;          sort(arr, arr + size);          return true;      }      bool earse(int x)      {          int wei = lower\_bound(arr, arr + size, x) - arr;          if (arr[wei] == x)          {              arr[wei] = INT\_MAX;              sort(arr, arr + size);              size--;              return true;          }          return false;      }      void show()      {          for (int i = 0; i < size; i++)          {              cout << arr[i] << ' ';              if ((i + 1) % 10 == 0)                  cout << endl;          }      }      friend Set operator+(Set &a, Set &b);      friend Set operator\*(Set &a, Set &b);  };  Set operator+(Set &a, Set &b)  {      Set temp = a;      int wei = 0;      while (temp.insert(b.arr[wei++]))      {          if (wei >= b.size)              return temp;      }      cout << "error : out of range" << endl;      Set zero;      return zero;  }  Set operator\*(Set &a, Set &b)  {      Set temp = a;      for (int i = 0; i < a.size; i++)      {          int wei = lower\_bound(b.arr, b.arr + b.size, a.arr[i]) - b.arr;          if (b.arr[wei] != a.arr[i])          {              temp.earse(a.arr[i]);          }      }      return temp;  }  int main()  {      ios::sync\_with\_stdio(false);      cin.tie(0);      cout.tie(0);      Set a;      for (int i = 1; i <= 40; i++)      {          a.insert(i);      }      cout << "a 第一次插值" << endl;      a.show();      cout << endl;      cout << "-------------------------------------" << endl;      for (int i = 1; i <= 40; i++)      {          a.insert(i);      }      cout << "a 第二次插值" << endl;      a.show();      cout << endl;      cout << "-------------------------------------" << endl;      for (int i = 1; i <= 200; i++)      {          a.insert(i);      }      cout << "a 第三次插值 插入(1-100)" << endl;      a.show();      cout << endl;      cout << "-------------------------------------" << endl;      Set b;      for (int i = 100; i >= 1; i--)      {          b.insert(i);      }      cout << "b 第一次插值 插入(1-100)" << endl;      b.show();      cout << endl;      cout << "-------------------------------------" << endl;      for (int i = 1; i <= 100; i += 2)      {          a.earse(i);      }      cout << "a删去所有的奇数" << endl;      a.show();      cout << endl;      cout << "-------------------------------------" << endl;      for (int i = 0; i <= 100; i += 2)      {          b.earse(i);      }      cout << "b删去所有的偶数" << endl;      b.show();      cout << endl;      cout << "-------------------------------------" << endl;      Set c;      c = a + b;      cout << "c是a b的并集" << endl;      c.show();      cout << endl;      cout << "-------------------------------------" << endl;      for (int i = 0; i <= 100; i += 3)      {          c.earse(i);      }      cout << "删去c中所有3的倍数" << endl;      c.show();      cout << endl;      cout << "-------------------------------------" << endl;      Set d;      d = c \* a;      cout << "d是c和a的交集" << endl;      d.show();      cout << endl;      cout << "-------------------------------------" << endl;      return 0;  } |
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