```c
/*--- substring.c ---*/
//Mike Hanling

#include <stdio.h>
#include <string.h>


char* is_in(char* target, char* test);


int main() {
  char tar[128];
  char test[128];

  printf("Target: ");
  scanf(" %s", tar);
  printf("Test: ");
  scanf(" %s", test);

  printf("%s\n", is_in(tar, test));

  return 0;
}  //end main


char* is_in(char* target, char* test) {
  int isin = -1;  //stays -1 if first letter of target is not in test

  //if target is longer than test, then no
  if (strlen(target) > strlen(test)) {
    return "no";
  }

  //for each letter in test
  for (int i = 0; i < strlen(test); i++) {
    //if this letter matches first letter of target
    if (test[i] == target[0]) {
      isin = 1;
      //check the subsequent letters of target against test
      for (int j = 0; j < strlen(target); j++) {
        if (test[i+j] != target[j]) {
          isin = 0;
        }
      }
      //if all match, then yes
      if (isin == 1) return "yes";
    }
  }

  //if all never matched, then no
  return "no";
}

/*--- pairs.c ---*/
//Mike Hanling


#include <stdio.h>


void readin(double* array, int size);
void printpairs(double* array1, double* array2, int size);


int main() {
  int numpairs = 0;

  printf("N: ");
  fflush(stdout);
  scanf(" %i", &numpairs);

  double x[numpairs];
  double y[numpairs];

  printf("x values: ");
  fflush(stdout);
  readin(x, numpairs);
  printf("y values: ");
  fflush(stdout);
  readin(y, numpairs);

  printpairs(x, y, numpairs);

  return 0;
}  //end main


void readin(double* array, int size){
  for (int i = 0; i < size; i++) {
    scanf(" %lg", &array[i]);
  }
}


void printpairs(double* array1, double* array2, int size) {
  for (int i = 0; i < size; i++) {
    printf("(%g,%g) ", array1[i], array2[i]);
  }
  printf("\n");
}
```