```
#include <stdlib.h>
#include <stdio.h>
int pot(int base, int exp){
  int res = 1;
  for (int i = 0; i < \exp; i++) res*=base;
  return res;
}
int verif negpos(double num){
  if(num > 0) return 1;
  if(num == 0) return 0;
  if(num < 0) return -1;
int perf_sq(int sq){
  for (int i = 1; i*i \le sq; i++){
     if((sq/i == i) \&\& (sq\%i == 0)) return 1;
  return 0;
double* vet prod(double *vet 1, double *vet 2){
  double *vet res = (double*) malloc(sizeof(double)*10);
  for(int i = 0; i < 10; i++)
     vet res[i] = vet 1[i]*vet 2[i];
  }
  return vet res;
int main(){
  // teste das funções
  int potencia = pot(2,5);
  printf("%d\n", potencia);
  int a = verif negpos(6);
  int b = verif negpos(0);
  int c = verif negpos(-8);
  printf("%d %d %d\n", a, b, c);
  a = perf sq(169);
  b = perf_sq(12);
  printf("%d\n%d\n", a, b);
  double x[10] = \{1,2,3,4,5,6,7,8,9,0\}, y[10] = \{0,9,8,7,6,5,4,3,2,1\}, *z = vet\_prod(x,y);
  for(int i = 0; i < 10; i++) printf("%lf\n", z[i]);
  return 0;
```