Code.md

/\*\*
  
\* @File\_Name: 1.c
  
\* @Author: Wenqiang Hu
  
\* @Mail: huwenqiang.hwq@protonmail.com
  
\* @Created\_Time: 2022年05月25日 星期三 08时40分57秒
  
\* @Description: 输出 200 以内的素数
  
\*\*/
  
  
#include <stdio.h>
  
  
int main()
  
{
  
 int i = 0;
  
 int j = 0;
  
 int count = 1;
  
 int result[50]={0};
  
 result[0] = 2;
  
  
 for (i = 3; i <= 200; i++) // 2是偶数，但是2却是素数
  
 {
  
 if (i % 2 == 0) //先进行判断，如果是偶数，直接跳过
  
 continue;
  
 else
  
 {
  
 for (j = 2; j < i; j++)
  
 {
  
 if (i % j == 0)
  
 break;
  
 }
  
 if (i == j)
  
 {
  
 result[count] = i;
  
 count = count + 1;
  
 }
  
 }
  
 }
  
  
 count = 1;
  
 /\*
  
 for (i = 0; i < 50; i++)
  
 {
  
 if (result[i] != 0)
  
 {
  
 if (count < 10)
  
 {
  
 printf("0%d: %d\n", count, result[i]);
  
 count = count + 1;
  
 }
  
 else
  
 {
  
 printf("%d: %d\n", count, result[i]);
  
 count = count + 1;
  
 }
  
 }
  
 }
  
 \*/
  
 for (i = 0; i < 50; i++)
  
 {
  
 if (result[i] != 0)
  
 {
  
 if (i % 7 == 0)
  
 printf("\n");
  
 printf("%-4d ", result[i]);
  
 }
  
 }
  
 return 0;
  
}

/\*\*
  
\* @File\_Name: 2\_1.c
  
\* @Author: Wenqiang Hu
  
\* @Mail: huwenqiang.hwq@protonmail.com
  
\* @Created\_Time: Wed May 25 09:15:34 2022
  
\* @Description:
  
\*\*/
  
  
#include <stdio.h>
  
  
int main()
  
{
  
 int i, j, k;
  
 int n=0;
  
 int a[50][50] = {0};
  
  
 scanf("%d",&n);
  
  
 for (i = 1; i <= n; i++)
  
 a[i][1] = a[i][i] = 1;
  
  
 for (i = 3; i <= n; i++)
  
 {
  
 for (j = 2; j <= i-1; j++)
  
 a[i][j] = a[i-1][j-1] + a[i-1][j]; /\* 除两边的数外都等于上两顶数之和 \*/
  
 }
  
  
 for (i = 1; i <= n; i++)
  
 {
  
 for (k = 1; k <= n-i; k++)
  
 {
  
 printf(" "); /\* 使输出居中 \*/
  
 }
  
 for (j = 1; j <= i; j++) /\* j <= i 是为了不输出其它的数 \*/
  
 {
  
 printf("%6d", a[i][j]);
  
 }
  
  
 printf("\n"); /\* 当一行输出完以后换行继续下一行的输出 \*/
  
 }
  
 printf("\n");
  
}

/\*\*
  
\* @File\_Name: 3.c
  
\* @Author: Wenqiang Hu
  
\* @Mail: huwenqiang.hwq@protonmail.com
  
\* @Created\_Time: Wed May 25 10:01:55 2022
  
\* @Description: 餐饮评价等级统计
  
\*\*/
  
  
#include <stdio.h>
  
  
int main()
  
{
  
 int valuation[1000] = {0};
  
 int count = 0;
  
 int input;
  
 int grade\_1 = 0, \
  
 grade\_2 = 0, \
  
 grade\_3 = 0, \
  
 grade\_4 = 0, \
  
 grade\_5 = 0;
  
  
 while(1) {
  
 scanf ("%d", &input);
  
 if (input != -1) // 由于是理想输入，故不对输入内容的合法性进行校验
  
 {
  
 valuation[count] = input;
  
 count = count + 1;
  
 }
  
 else
  
 {
  
 break;
  
 }
  
 }
  
  
 for (int i = 0; i < count; i++)
  
 {
  
 switch (valuation[i])
  
 {
  
 case 1:
  
 grade\_1 ++; break;
  
 case 2:
  
 grade\_2 ++; break;
  
 case 3:
  
 grade\_3 ++; break;
  
 case 4:
  
 grade\_4 ++; break;
  
 case 5:
  
 grade\_5 ++; break;
  
 }
  
 }
  
  
 printf("n = %d\n", count);
  
 printf("Grade(\*) Count(n) Percent(%)\n");
  
 printf("5 %-5d %-2.0f\n", grade\_5, (float)((float)grade\_5 \* 100 / (float)count));
  
 printf("4 %-5d %-2.0f\n", grade\_4, (float)((float)grade\_4 \* 100 / (float)count));
  
 printf("3 %-5d %-2.0f\n", grade\_3, (float)((float)grade\_3 \* 100 / (float)count));
  
 printf("2 %-5d %-2.0f\n", grade\_2, (float)((float)grade\_2 \* 100 / (float)count));
  
 printf("1 %-5d %-2.0f\n", grade\_1, (float)((float)grade\_1 \* 100 / (float)count));
  
  
 return 0;
  
}

/\*\*
  
\* @File\_Name: 4.c
  
\* @Author: Wenqiang Hu
  
\* @Mail: huwenqiang.hwq@protonmail.com
  
\* @Created\_Time: 2022年05月25日 星期三 10时56分13秒
  
\* @Description: String Compare
  
\*\*/
  
  
#include <stdio.h>
  
#include <string.h>
  
  
int strcmp\_self(char \*str\_1, char \*str\_2)
  
{
  
 while ((\*str\_1 != '\0') && (\*str\_1 == \*str\_2))
  
 {
  
 str\_1++;
  
 str\_2++;
  
 }
  
 int result = \*str\_1 - \*str\_2;
  
 return result;
  
}
  
  
int main()
  
{
  
 char str\_1[100], str\_2[100];
  
  
 char \* string\_1 = str\_1;
  
 char \* string\_2 = str\_2;
  
  
 /\* 直接使用 gets() 会引入缓冲区溢出的风险，所以现在换成了 fgets()\*/
  
 fgets(string\_1, 100, stdin);
  
 fgets(string\_2, 100, stdin);
  
  
 printf("%d", strcmp\_self(str\_1, str\_2));
  
 return 0;
  
}