/* Months program */
#include <stdio.h>

void print_months1(char *); /* or (char **) */
void print_months2(char **); /* or (char * [ ]) */

void main(void)
{
  int i, j;
  char **p;
  char *q;

  /**** 1st ********************************/
  printf("First attempt to print months\n");
  for (i = 1; i <= 12; i++)
    printf(\"%s\n\", months[i]);

  /**** 2nd ********************************/
  printf("Second attempt to print months\n");
  for (i = 1; i <= 12; i++)
    printf(\"%s\n\", *(months + i));

  /**** 3rd ********************************/
  printf("Third attempt to print months\n");
  p = &months[1];
  while (*p != NULL)
    printf(\"%s\n\", *(p++));

  /**** 4th ********************************/
  printf("Fourth attempt to print months\n");
  for (i = 1; i <= 12; i++)
  {
    j = 0;
    while ((months[i])[j]) /* months[i][j] */
      putchar((months[i])[j++]);
    putchar(\'\n\');
  }

  /**** 5th ********************************/
  printf("Fifth attempt to print months\n");
  p = &months[1];
  while (*p)
  {
    q = *p++;
    while (*q)
      putchar(*q++);
    putchar(\'\n\');
  }

  /**** 6th ********************************/
  printf("Sixth attempt to print months\n");
  print_months1(months);

  /**** 7th ********************************/
  printf("Seventh attempt to print months\n");
  print_months2(months);
  printf("Th-th-th-th-that\'s-all-folks\n");
}

void print_months1(char *months[])
{
  int i;
  for (i = 1; i <= 12; i++)
    printf(\"%s\n\", months[i]);
}

void print_months2(char **months)
{
  char **p;
  p = &months[1];
  while (*p)
  {
    q = *p++;
    while (*q)
      putchar(*q++);
    putchar(\'\n\');
  }
}

runner% cc -o months months.c
runner% months
First attempt to print months
January
February
March
April
May
June
July
August
September
October
November
December
Second attempt to print months
January
February
March
April
May
June
July
August
September
October
November
December
Third attempt to print months
January
February
March
April
May
June
July
August
September
October
November
December
Fourth attempt to print months
January
February
March
April
May
June
July
August
September
October
November
December
Fifth attempt to print months
January
February
March
April
May
June
July
August
September
October
November
December
Sixth attempt to print months
January
February
March
April
May
June
July
August
September
October
November
December
Seventh attempt to print months
January
February
March
April
May
June
July
August
September
October
November
December
Th-th-th-th-that\'s-all-folks