 מטלה 9 – פוינטרים  
  
שאלה 1

#define SIZE 10

#include <stdio.h>

**int** main()

{

**int** arr[SIZE];

**int** \*addressMin = arr, \*addressMax = arr;

**int** temp;

printf("Please insert %d numbers: \n", SIZE);

**for** (**int** \*p = arr; p < arr + SIZE; p++)

{

scanf("%d", p);

}

**for** (**int** \*p = arr+1; p < arr + SIZE; p++)

{

**if**(\*p < \*addressMin)

{

addressMin = p;

}

**else**

{

**if** (\*p > \*addressMax)

{

addressMax = p;

}

}

}

printf("The address of the minimum number is %p\n", addressMin);

printf("The value of the minimum numbers is %d\n", \*addressMin);

temp = \*addressMin;

\*addressMin = \*addressMax;

\*addressMax = temp;

printf("The new array is:\n");

**for** (**int** \*p = arr; p < arr + SIZE; p++)

{

printf("%d ", \*p);

}

תמונה שמכילה טקסט

התיאור נוצר באופן אוטומטי printf("\n");

}

שאלה 2

#define SIZE 10

#include <stdio.h>

int main()

{

int phone\_num[SIZE] = {0, 5, 4, 2, 8, 8, 7, 1 ,3 ,3};

int \*p\_phone\_num[SIZE];

int i = 0;

for (int \*ptr1 = p\_phone\_num; ptr1 < p\_phone\_num + SIZE; ptr1++)

{

\*ptr1 = phone\_num + i;

i++;

}

printf("My Phone number is: \n");

for (int \*ptr2 = phone\_num; ptr2 < phone\_num + SIZE; ptr2++)

{

printf("%d", \*ptr2);

}

printf("\n");

for (int \*ptr3 = p\_phone\_num; ptr3 < p\_phone\_num + SIZE; ptr3++)

{

printf("%p\n", \*ptr3);

}

printf("\n");

for (int \*ptr4 = p\_phone\_num; ptr4 < p\_phone\_num + SIZE; ptr4++)

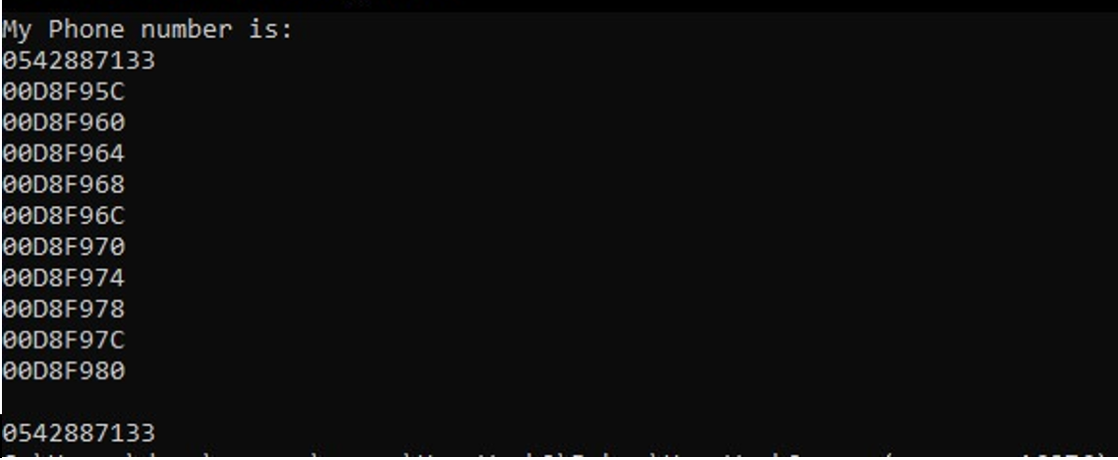
{

int \*ptr5 = \*ptr4;

printf("%d", \*ptr5);

}

}



שאלה 3

#include <stdio.h>

#include <string.h>

#define SIZE 30

**void** removeSpaces(**char** \*str1);

**int** main()

{

**char** str[SIZE];

printf("Please insert a sentence up to %d letters: ", SIZE - 1);

gets(str);

removeSpaces(str);

puts(str);

}

**void** removeSpaces(**char** \*str1)

{

**char** \*p1 = str1;

**char** \*p2;

**while** (\*p1 != '\0')

{

**if**(\*p1 == ' ')

{

p2 = p1;

**while** (\*p2 != '\0')

{

\*p2 = \*(p2 + 1);

p2++;

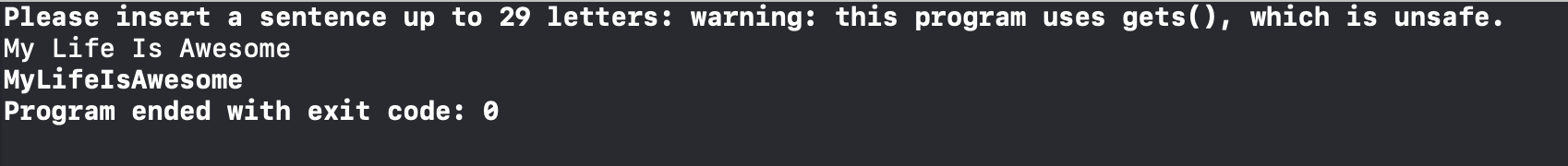
}

}

p1++;

}

}



שאלה 4

#define SIZE 10

#include <stdio.h>

**void** mirror(**int** \*arr, **int** size);

**int** main()

{

**int** arr[SIZE];

printf("Please insert %d numbers:\n", SIZE);

**for** (**int** \*p = arr ; p < arr + SIZE ; p++)

{

scanf("%d", p);

}

mirror(arr, SIZE);

**for** (**int** \*p = arr; p < arr + SIZE; p++)

{

printf("%d ", \*p);

}

printf("\n");

}

**void** mirror(**int** \*arr, **int** size)

{

**int** \*s = arr;

**int** temp;

**for** (**int** \*p = arr + size - 1; p >= arr + size/2; p--)

{

temp = \*p;

\*p = \*s;

\*s = temp;

s++;

}

}

תמונה שמכילה טקסט

התיאור נוצר באופן אוטומטי