TUGAS PRAKTIKUM KONSEP PEMPROGRAMAN

JILID 12 part 1

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POLITEKNIK ELEKTRONIKA NEGERI SURABAYA

Praktikum 8 (1/4)
POINTER

Untuk setiap program di bawah ini,

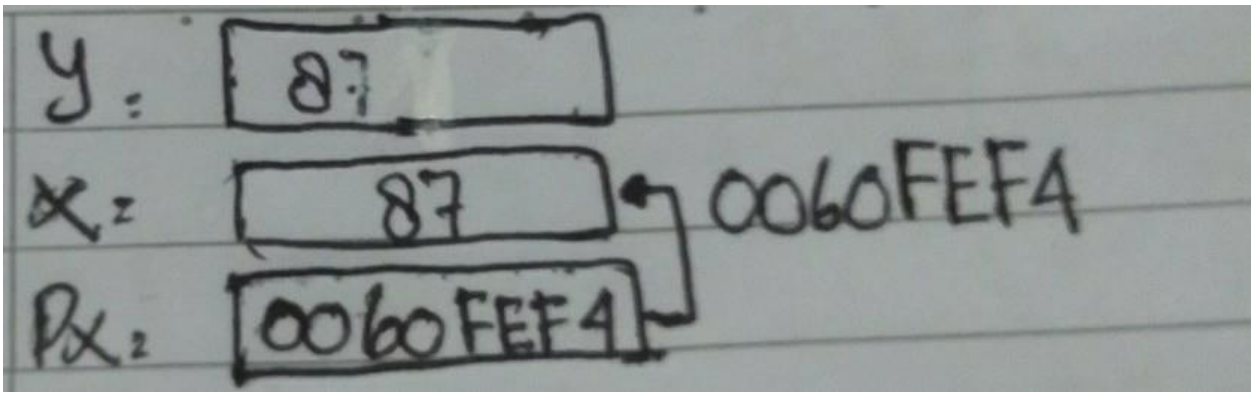
- **gambarkan ilustrasi alokasi memori dari setiap baris pernyataan yang diproses**
- **perkirakan hasil eksekusinya**

1.
```
main(){
    int y, x = 87;
    int *px;

    px = &x;
    y = *px;
    printf("Alamat x    = %p\n", &x);
    printf("Isi px      = %p\n", px);
    printf("Isi x       = %d\n", x);
    printf("Nilai yang ditunjuk oleh px = %d\n", *px);
    printf("Nilai y     = %d\n", y);
}
```

Jawab :

Gambar :



Perkiraan Jawaban :

Alamat x = 0060FEF4

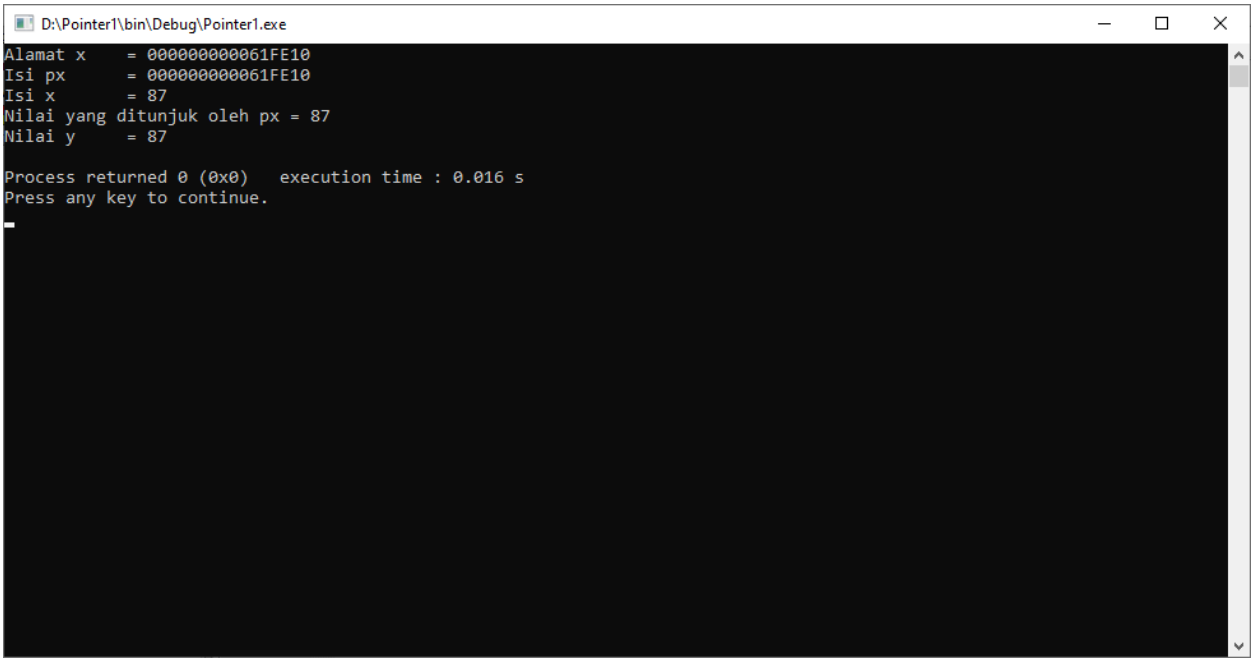
Isi px = 0060FEF4

Isi x = 87

Nilai yang ditunjuk oleh px = 87

Nilai y = 87

Output :



2. main(){

float *pu, nu;

double u = 1234.0;

pu = &u; nu = *pu;

printf("Alamat dari u = %p\n", &u); printf("Isi pu = %p\n", pu);

printf("Isi u = %lf\n", u);

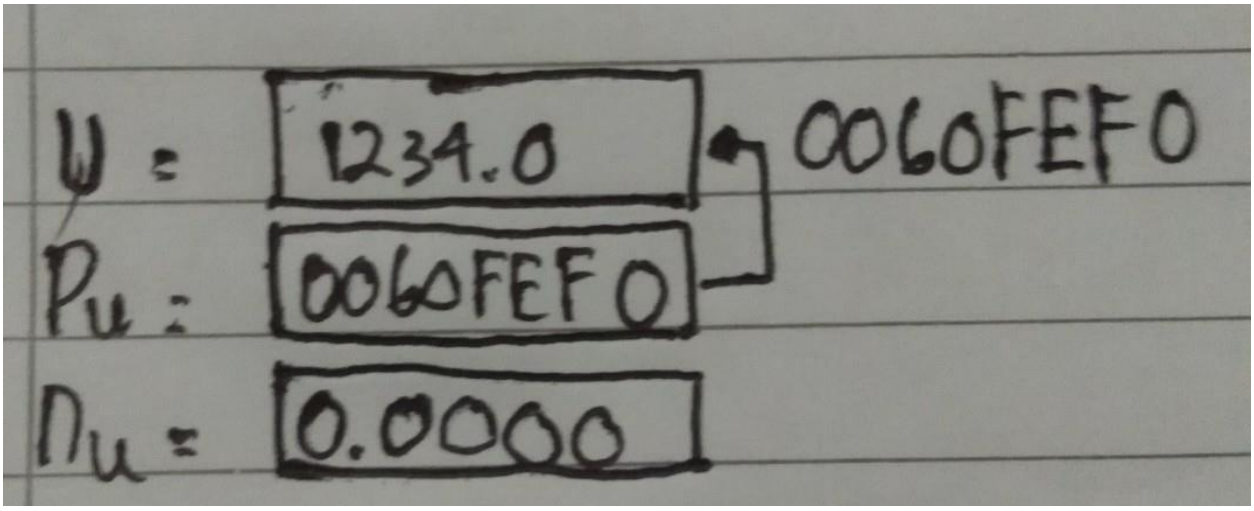
printf("Nilai yang ditunjuk oleh pu = %f\n", *pu);

printf("Nilai nu = %f\n", nu);

}

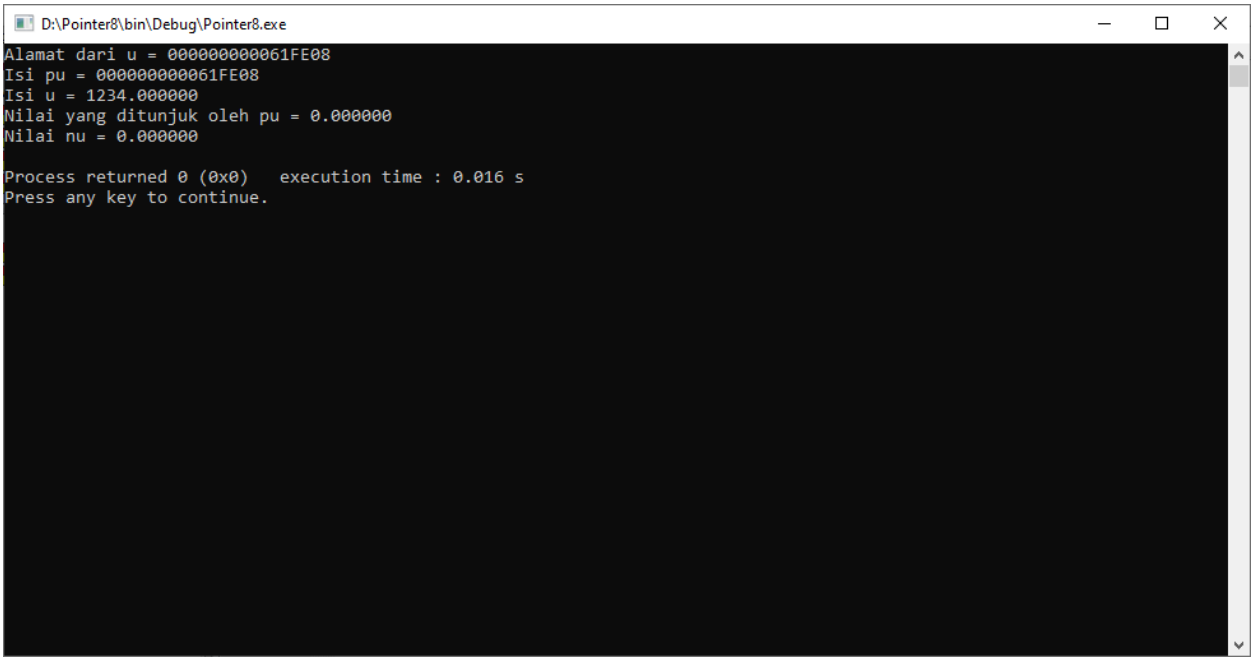
Jawab :

Gambar :



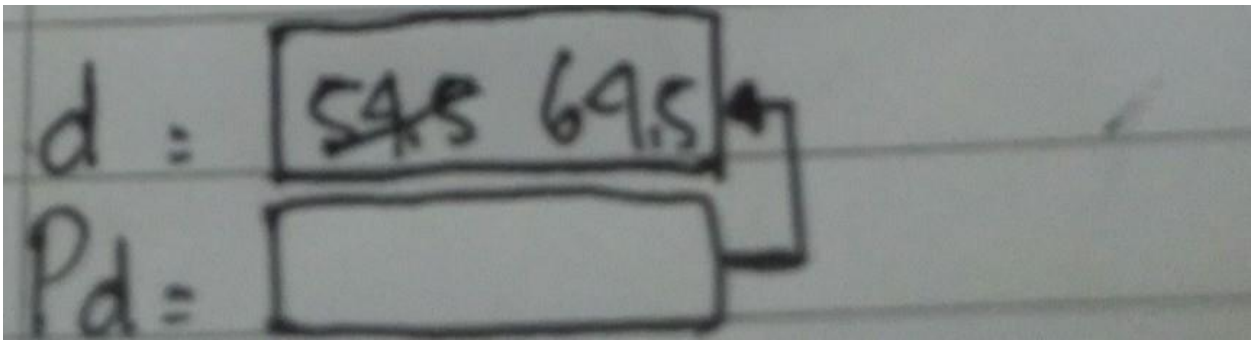
Perkiraan Jawaban :

Alamat dari u = 0060FEF0
Isi pu = 0060FEF0
Isi u = 1234.0
Nilai yang ditunjuk oleh pu = 0.000000
Nilai nu = 0.000000
Output :



3. main(){
float d = 54.5f,*pd;
printf("Isi d mula-mula = %g\n", d);
pd = &d;
*pd += 10;
printf("Isi d sekarang = %g\n", d);
}

Jawab :
Gambar :

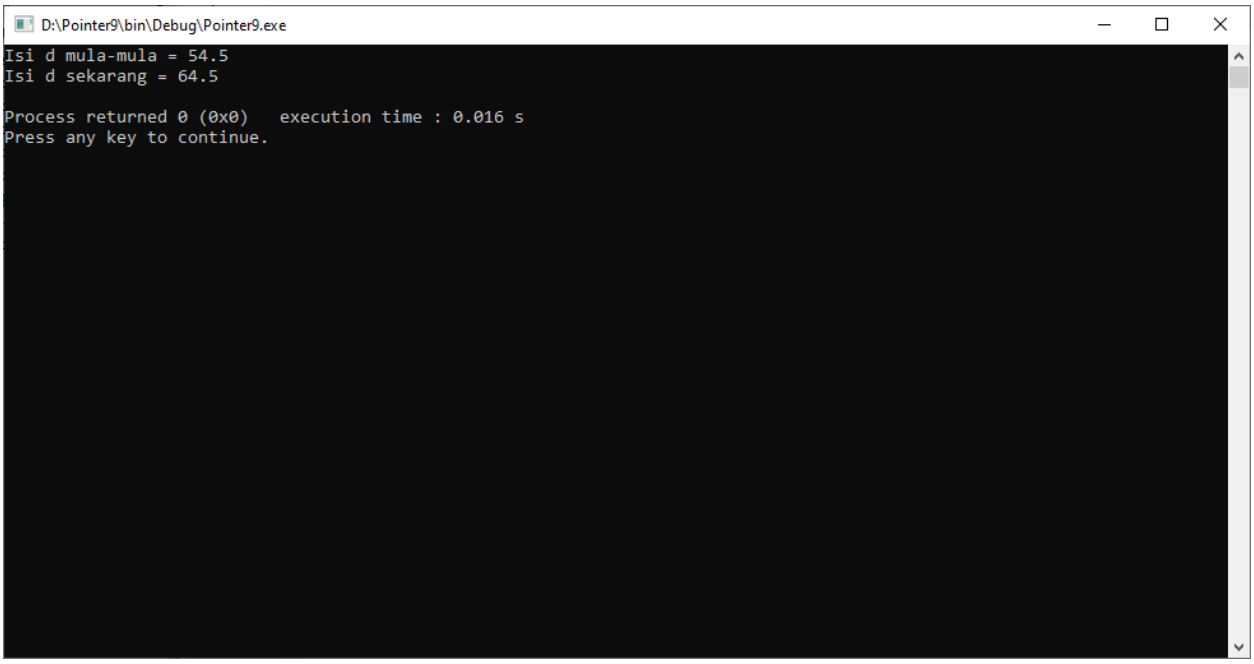


Perkiraan Jawaban :

Isi d mula-mula = 54.5

Isi d sekarang = 64.5

Output :

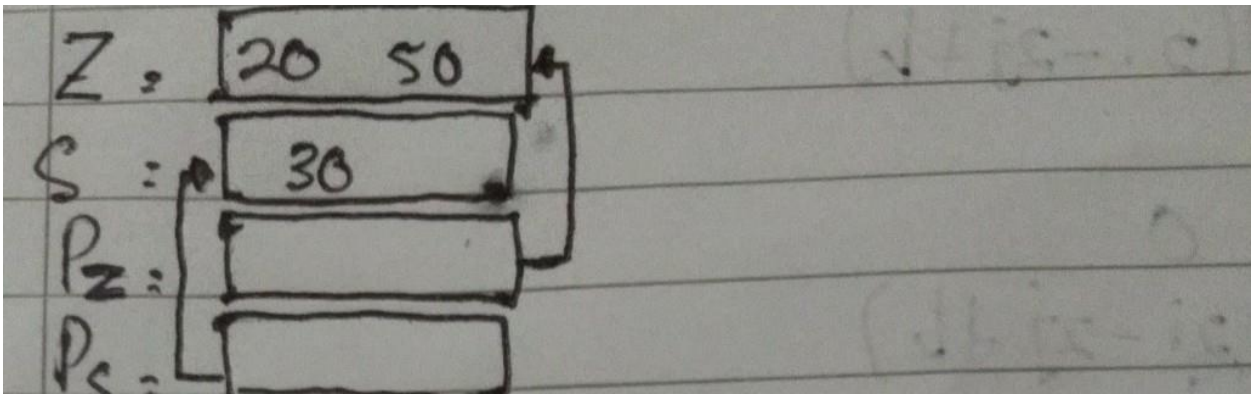


4. main(){

```
        int z = 20, s = 30, *pz, *ps;
        pz = &z;
        ps = &s;
        *pz += *ps;
        printf("z = %d\n", z);
        printf("s = %d\n", s);
    }
```

Jawab :

Gambar :

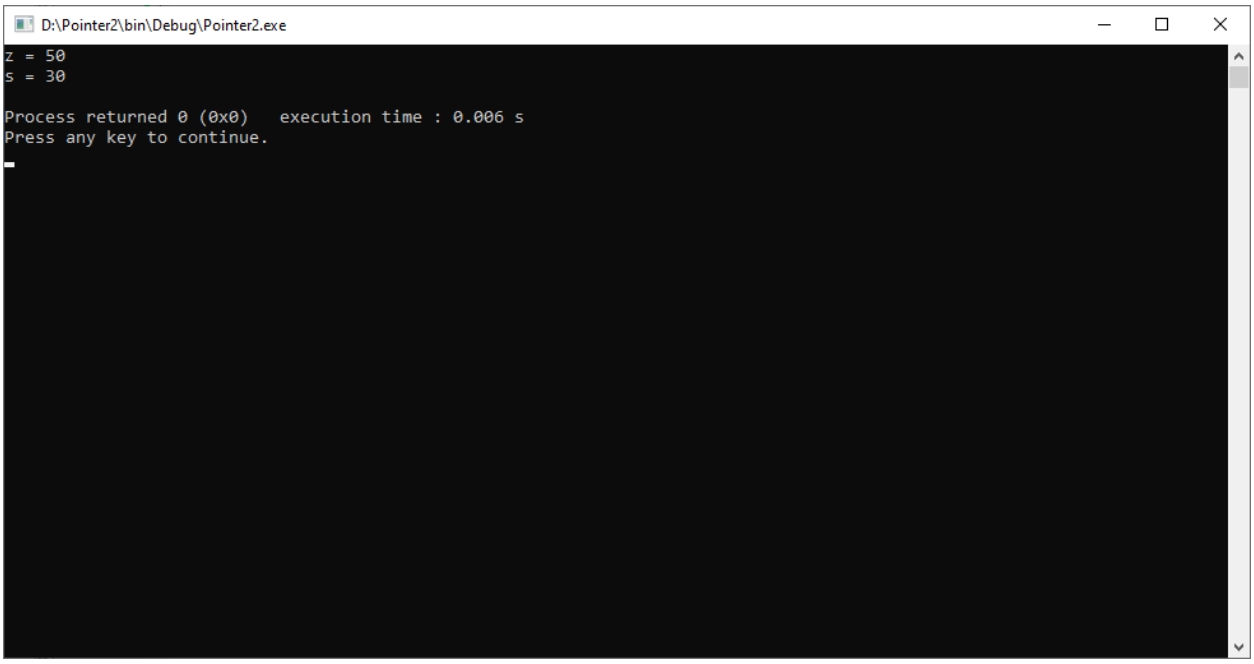


Perkiraan Jawaban :

z = 50

s = 30

Output :



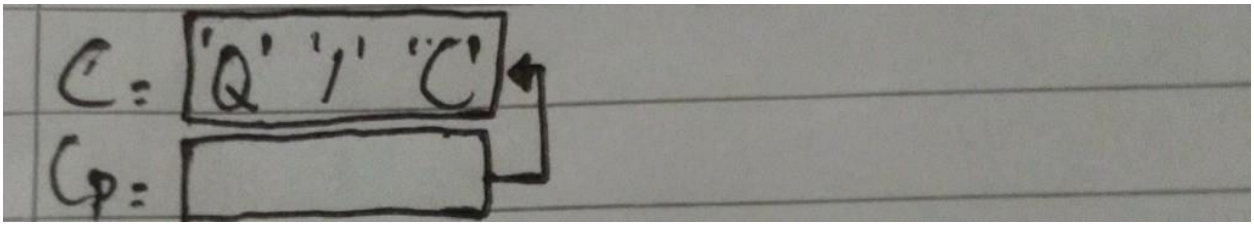
5. main(){

```
char c = 'Q';
char *cp = &c;
printf("%c %c\n", c, *cp);
c = '/';
printf("%c %c\n", c, *cp);
*cp = '(';
printf("%c %c\n", c, *cp);
```

}

Jawab :

Gambar :



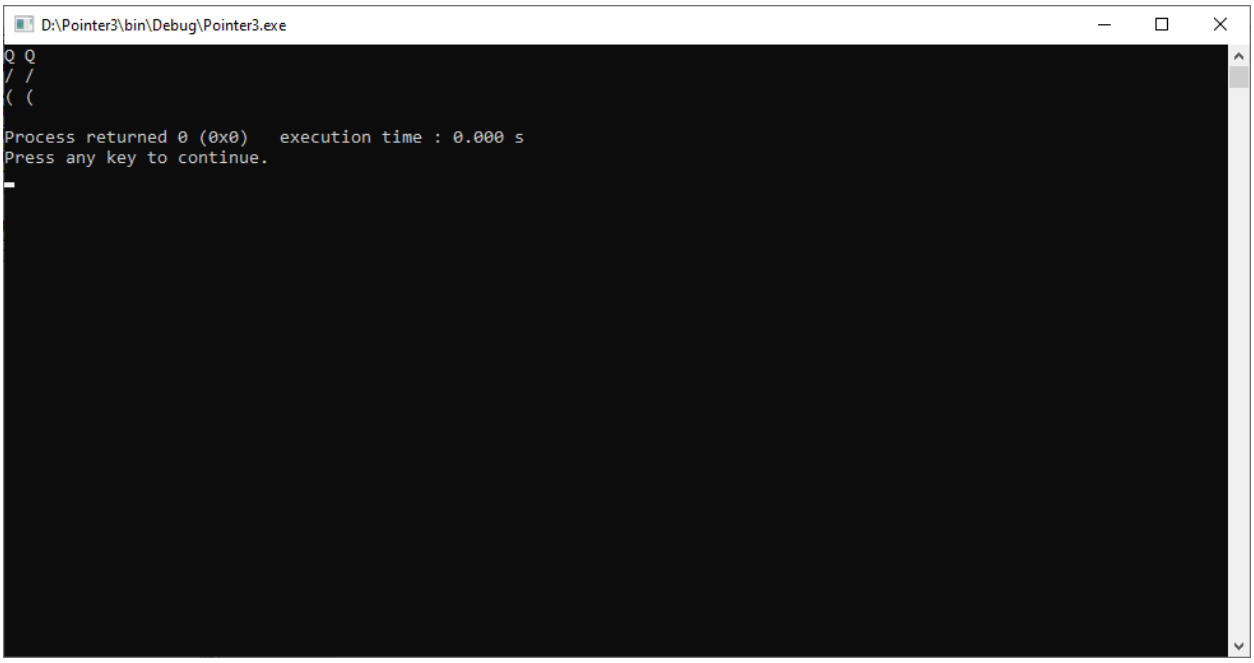
Perkiraan Jawaban :

Q Q

/ /

((

Output :



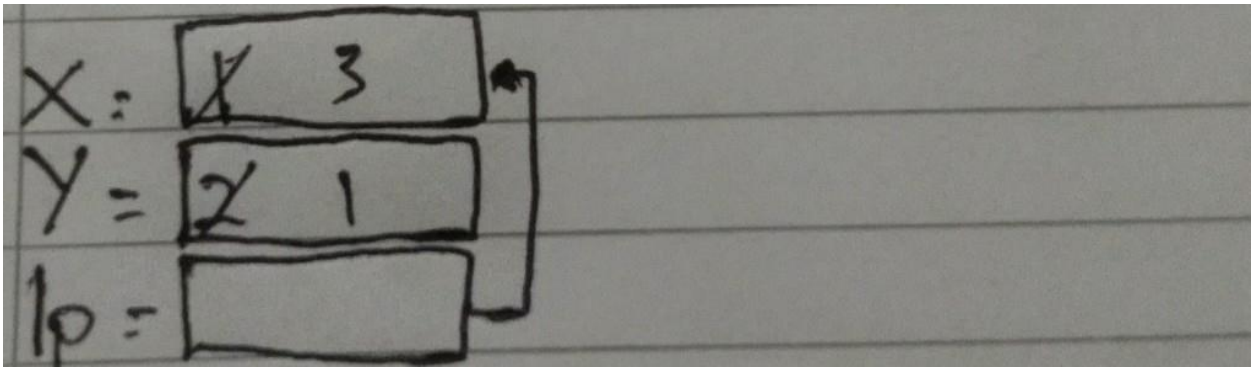
6. main() {

```
int x = 1, y = 2, *ip;
ip = &x;
y = *ip;
*ip = 3;
printf("x = %d, y = %d", x, y);
```

}

Jawab :

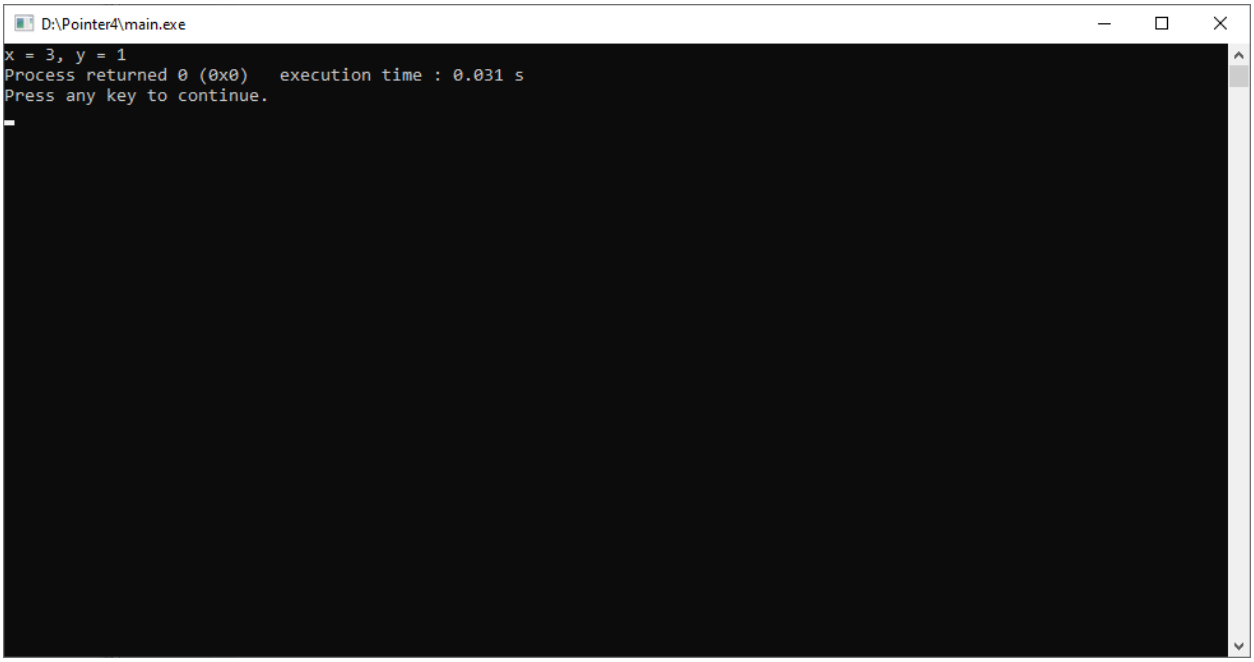
Gambar :



Perkiraan Jawaban :

x = 3, y = 1

Output :

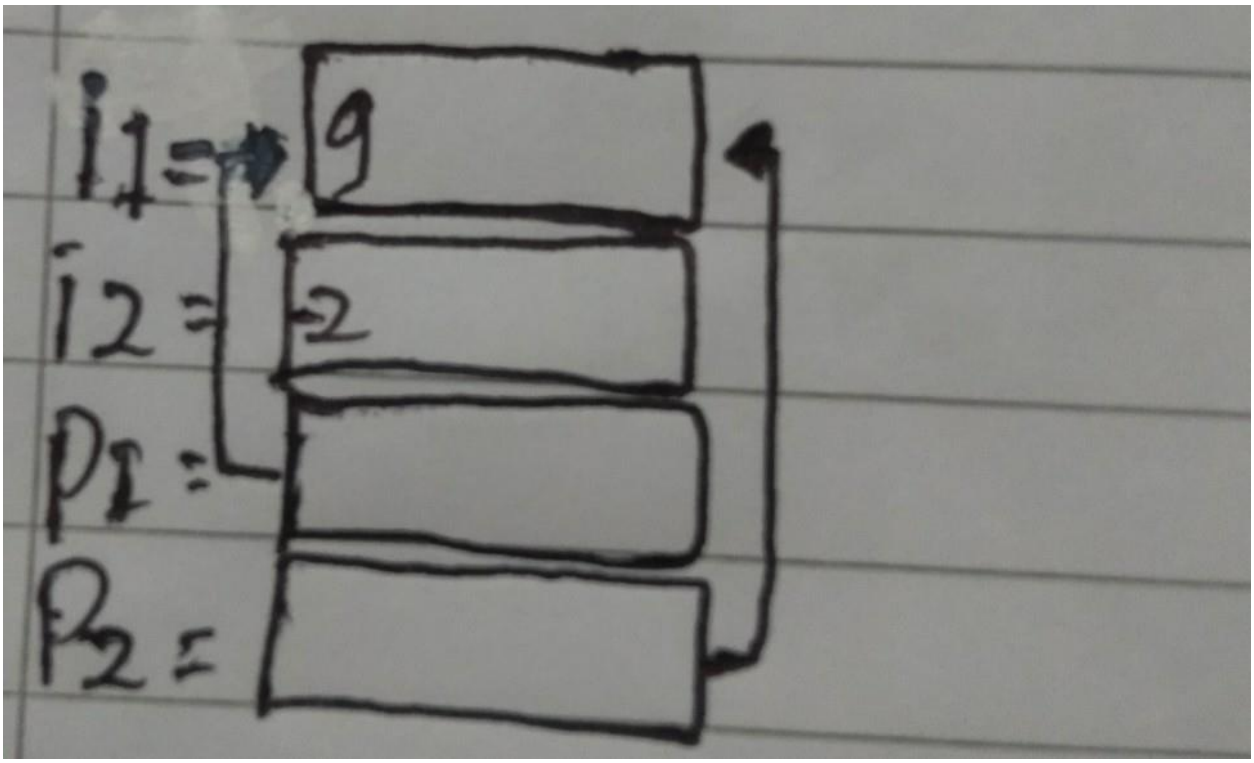


7. main(){

```
        int i1, i2, *p1, *p2;
        i1 = 9;
        p1 = &i1;
        i2 = *p1 / 2 – 2 * 3;
        p2 = p1;
        printf("i1=%d,i2=%d,*p1=%d,*p2=%d\n",i1,i2,*p1,*p2);
}
```

Jawab :

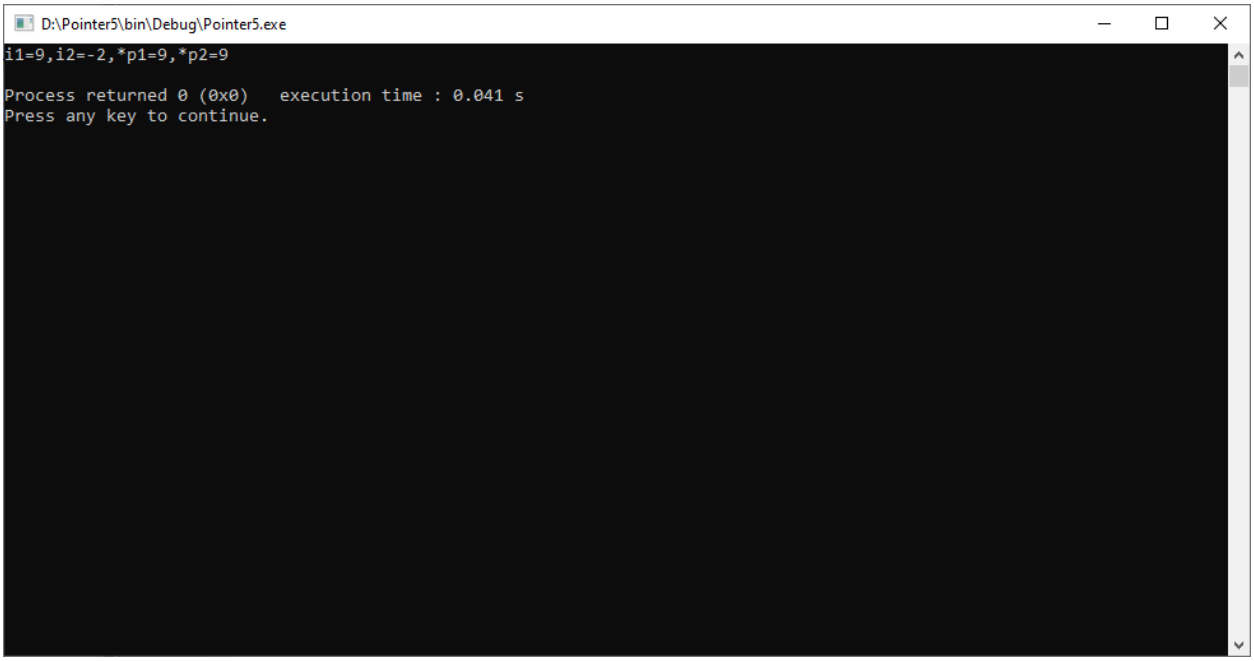
Gambar :



Perkiraan Jawaban :

i1=9,i2=-2,*p1=9,*p2=9

Output :



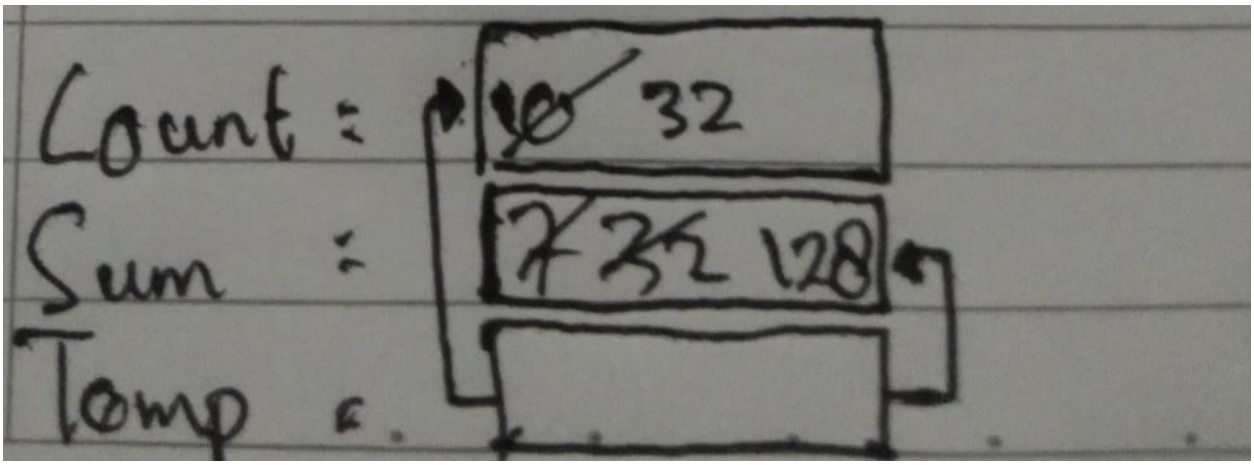
8. main() {

int count = 10, *temp, sum = 7;

```
        temp = &count;
        *temp = 32;
        temp = &sum;
        *temp = count;
        sum = *temp * 4;
        printf("count = %d, *temp = %d, sum = %d\n", count,*temp, sum );
    }
```

Jawab :

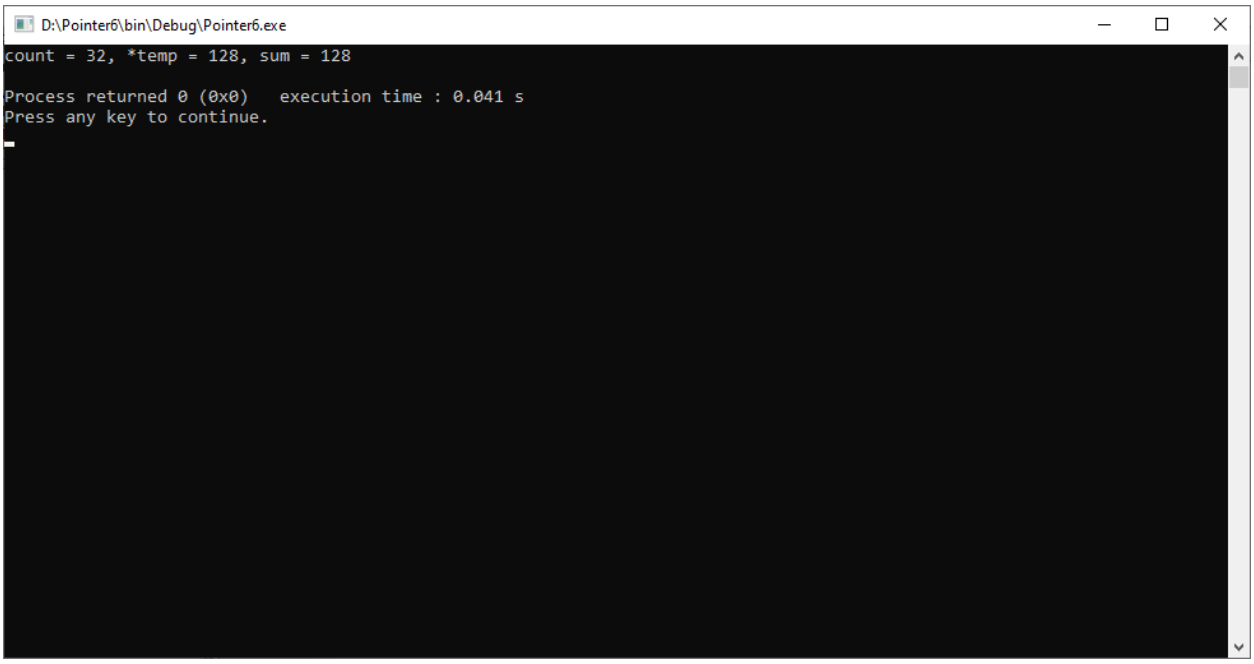
Gambar :



Perkiraan Jawaban :

count=32, *temp=128, sum=128

Output :



9. main(){

int count = 13, sum = 9, *x, *y;

x = &count;

*x = 27;

y = x;

x = ∑

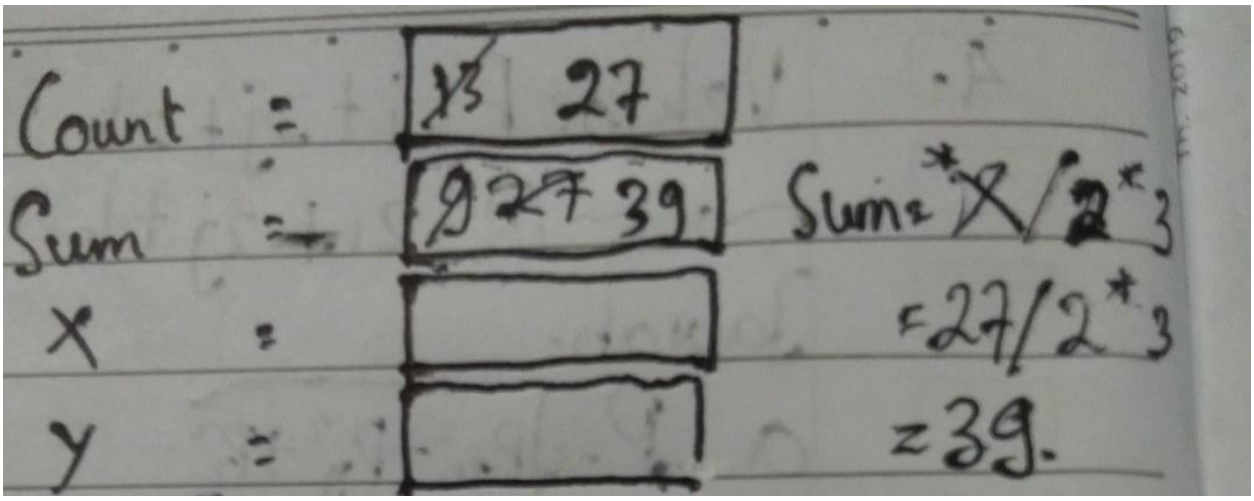
*x = count;

sum = *x / 2 * 3; printf("count = %d, sum = %d, *x = %d, *y = %d\n", count,sum,*x,*y);

}

Jawab :

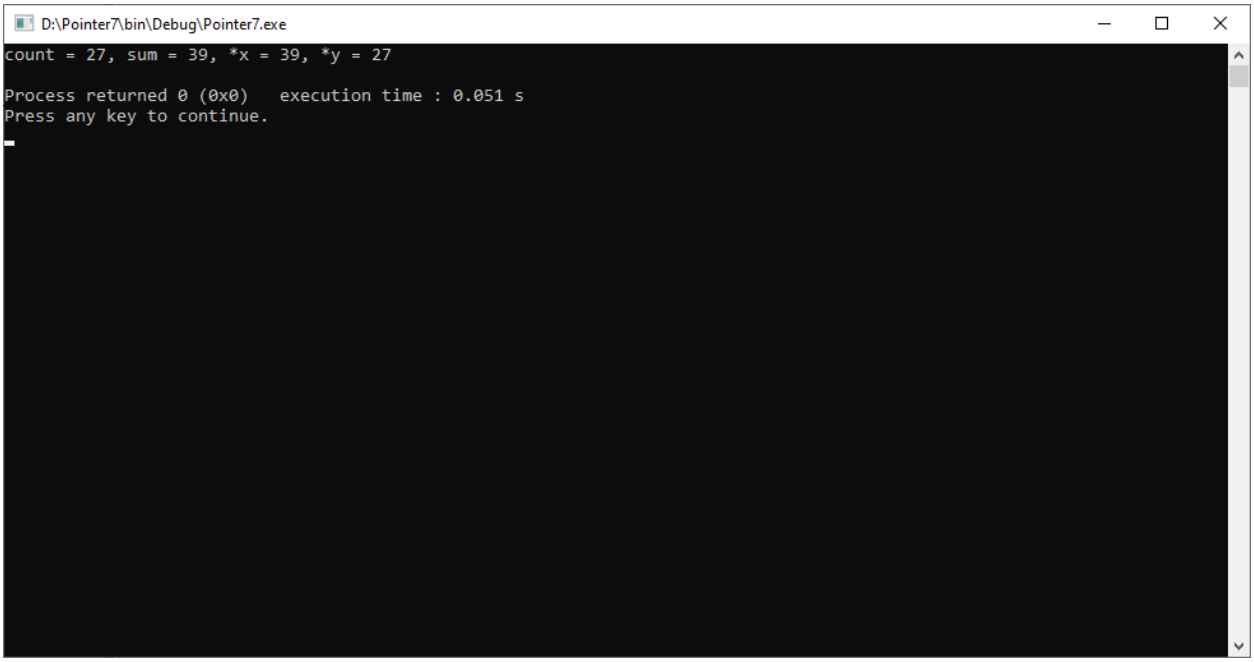
Gambar :



Perkiraan Jawaban :

count=27, sum=39, *x=39, *y=27

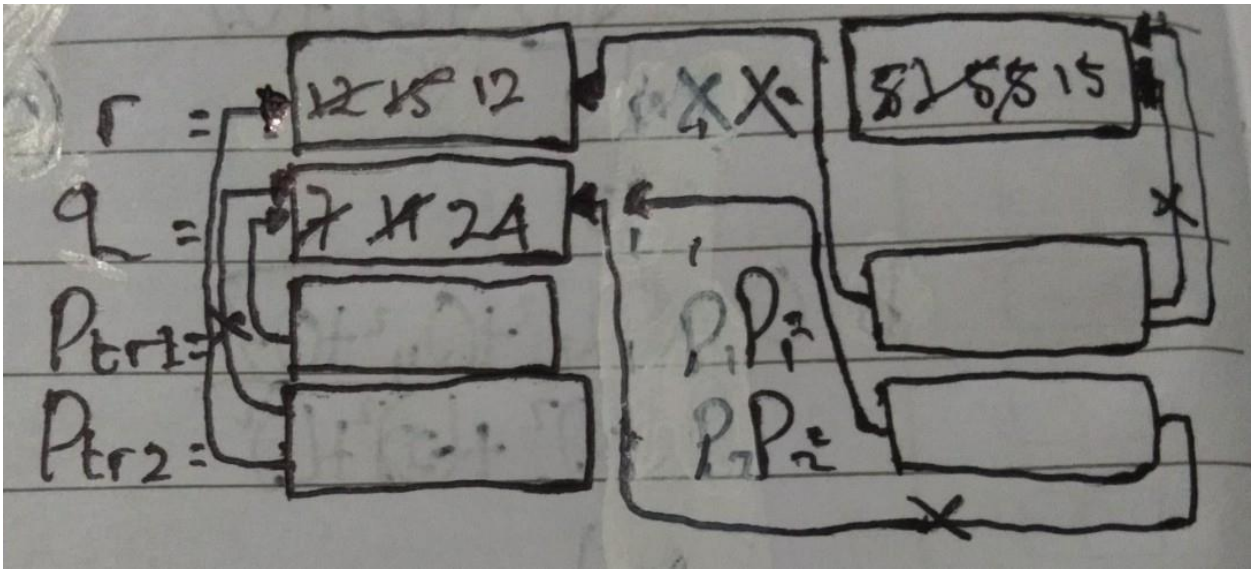
Output :



10. int r, q = 7;
 int go_crazy(int *, int *);
 main() {
 int *ptr1 = &q;
 int *ptr2 = &q;
 r = go_crazy(ptr1, ptr2);
 printf("q=%d, r=%d, *ptr1=%d, *ptr2=%d\n",q,r,*ptr1,*ptr2);

 ptr2 = &r;

 go_crazy(ptr2, ptr1);
 printf("q=%d, r=%d, *ptr1=%d, *ptr2=%d\n",q,r,*ptr1,*ptr2);
 }
 int go_crazy(int *p1, int *p2){
 int x = 5;
 r = 12;
 *p2 = *p1 * 2;
 p1 = &x;
 return *p1 * 3;
}
Jawab :
Gambar :



Perkiraan Jawaban :

q=14, r=15, *ptr1=14, *ptr2=14

q=24, r=12, *ptr1=24, *ptr2=12

Output :