

The following segments are part of a C program. Write down the output in the space.

[30]

```
1. int a=35,b=20,c,*d[3];
   int *p=&a,*q=&c,**r=&q;
   *q=300;
   **r=10;
   b=*p**q;
   *p=a**r;
   printf("x=%d y=%d z=%d\n",a,b,c);
   d[0]=&a;
   d[1]=*r;
   d[2]=&b;
   *p=70;
   *q=60;
   **r=80;
   printf("u=%d v=%d w=%d\n",d[0][0],d[1][0],d[2][0]);
```

```
2. int i,x[6]={12,13,14,15,16,17},*p=&x[1]+2;
   for(i=0;i<3;i++)
   {
       p[-i]=i*i-1;
       *(p+i)=i*i+1;
   }
   printf("a=%d b=%d c=%d\n",p[2],p[-2],*(p+2)+3);
   printf("u=%d v=%d w=%d\n",*(2+x),*x+2,*p+2);
```

```
3. char p[17]="A for Apple";
   char *q="T for Tall";
   *(p+5)='\n';
   printf("X%s",p+2);
   printf("Y%s Z%s\n",&q[6]+1,q+2);
```

```
4. int a[3][4]={2,1,3},{7,9},{7,11,15}};
int i,*p,(*q)[4];
p=*a+1;
q=a+1;
printf("x=%d y=%d z=%d\n",q[1][1],q[1][2],q[1][3]);
for(i=0;i<3;i++)
    p[i]=20+i;
for(i=0;i<3;i++)
    p[7-i]=20+i;
printf("u=%d v=%d w=%d\n",**a,*(*a+2),**(*a+2)+3);
printf("p=%d q=%d r=%d\n",**q,**(q+1)+2,*(*q+1)+1);
printf("m=%d n=%d o=%d\n",**(*q-1)+2,*(*(*q-1)+3),*(*q+2)-5);
```
