

1.

```
1 #include <stdio.h>
2 int main(){
3     int n,n2,n3;
4     n=5;
5     n2=n*n;
6     n3=n*n2;
7     printf("n=%d, n squared=%d, n cubed = %d\n", n, n2, n3);
8     return 0;
9 }
```

```
● sunkai@sunkai-macbook-pro: % cd
tempCodeRunnerFile && "/var/fold
n=5,n squared=25, n cubed = 125
```

2.

```
1 #include <stdio.h>
2 int main(){
3     printf("                *\n");
4     printf("                *\n");
5     printf("                *\n");
6     printf("*                *\n");
7     printf(" *                *\n");
8     printf("                *");
9 }
```

Time (h)	Temperature (°C)
0	10
1	20
2	30
3	25
4	45

3.

```
1 #include <stdio.h>
2 #include <math.h>
3 double r=10,v;
4 double pi=M_PI;
5 int main(){
6     v=pi*4.0f/3.0f*pow(r,3);
7     printf("v=%lf",v);
8     return 0;
9 }
```

```

● sunkai@sunkaideMacBook-Pro n/T/" && gcc tempCodeRunne
yp0d5rv5tkc4bm2prss80000gr
v=4188.790205%
● sunkai@sunkaideMacBook-Pro

```

4,

```

1  #include <stdio.h>
2  #include <stdlib.h>
3  char str[]="smile!";
4  int main(){
5      for(int i=3;i>0;i--){
6          for(int j=1;j<=i;j++)
7              printf("%s",str);
8          printf("\n");
9      }
10     return 0;
11 }

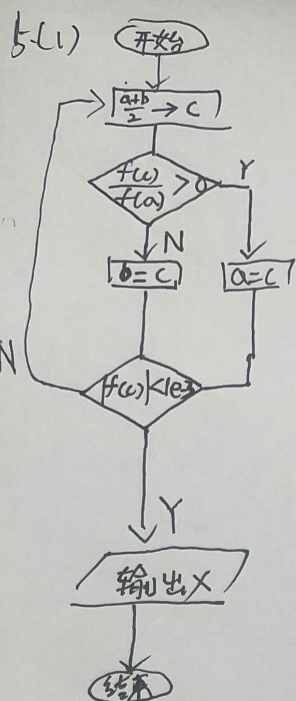
```

```

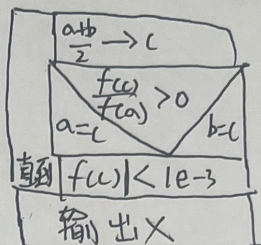
● sunkai@sunkaideMacBook-Pro T %
tempCodeRunnerFile && "/var/1
smile!smile!smile!
smile!smile!
smile!

```

5.



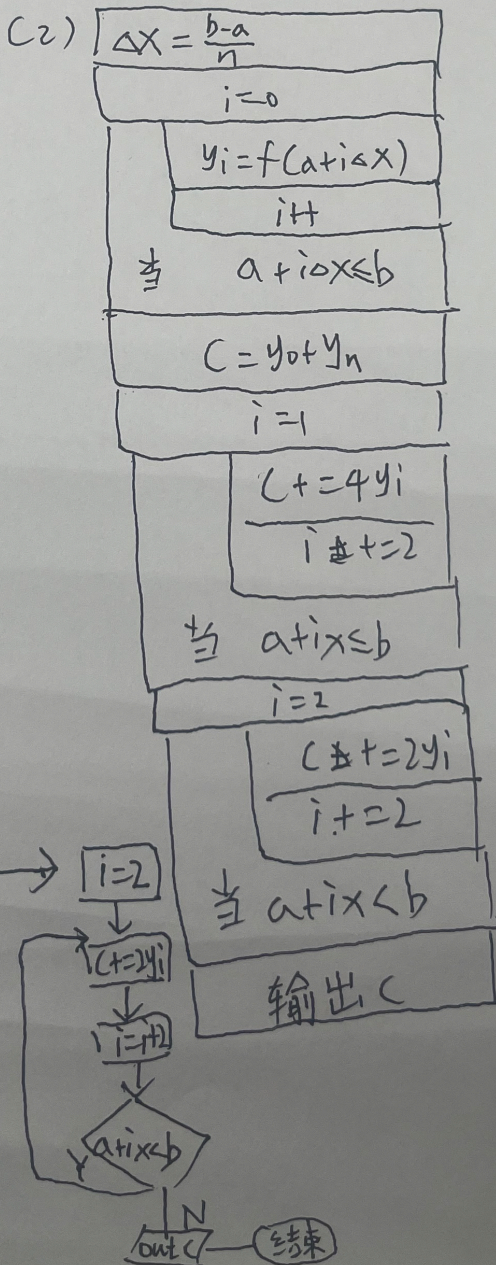
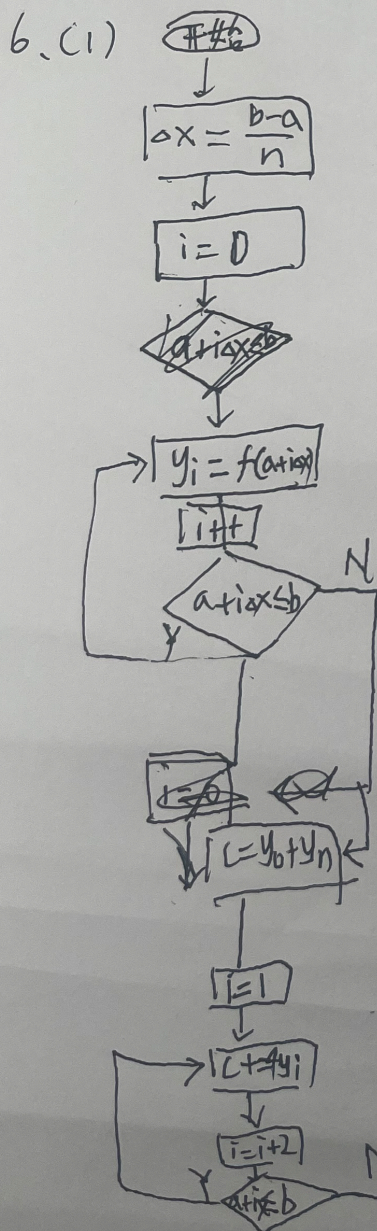
(2)



(3)

```

while (|f(c)| > 1e-3) {
  c = (a+b)/2
  d = f(c)/f(a)
  if d > 0 a = c
  if d < 0 b = c
}
END
  
```



(3)

```

start
 $\Delta x = \frac{b-a}{n}$ 
for (i=0, i ≤ n, i++) {
   $y_i = f(a + i \Delta x)$ 
}
 $C = y_0 + y_n$ 
for (i=1, i ≤ n, i+=2) {
   $C += 4y_i$ 
   $C += 4y_i$ 
}
for (i=2, i ≤ n, i+=2) {
   $C += 2y_i$ 
}
output C
End
  
```