

Hint on 18, 19

~ 4C in 8 bits

~ 0100 1100

1011 0011 = B3

hint on 15

1009 + 6

1009
0006

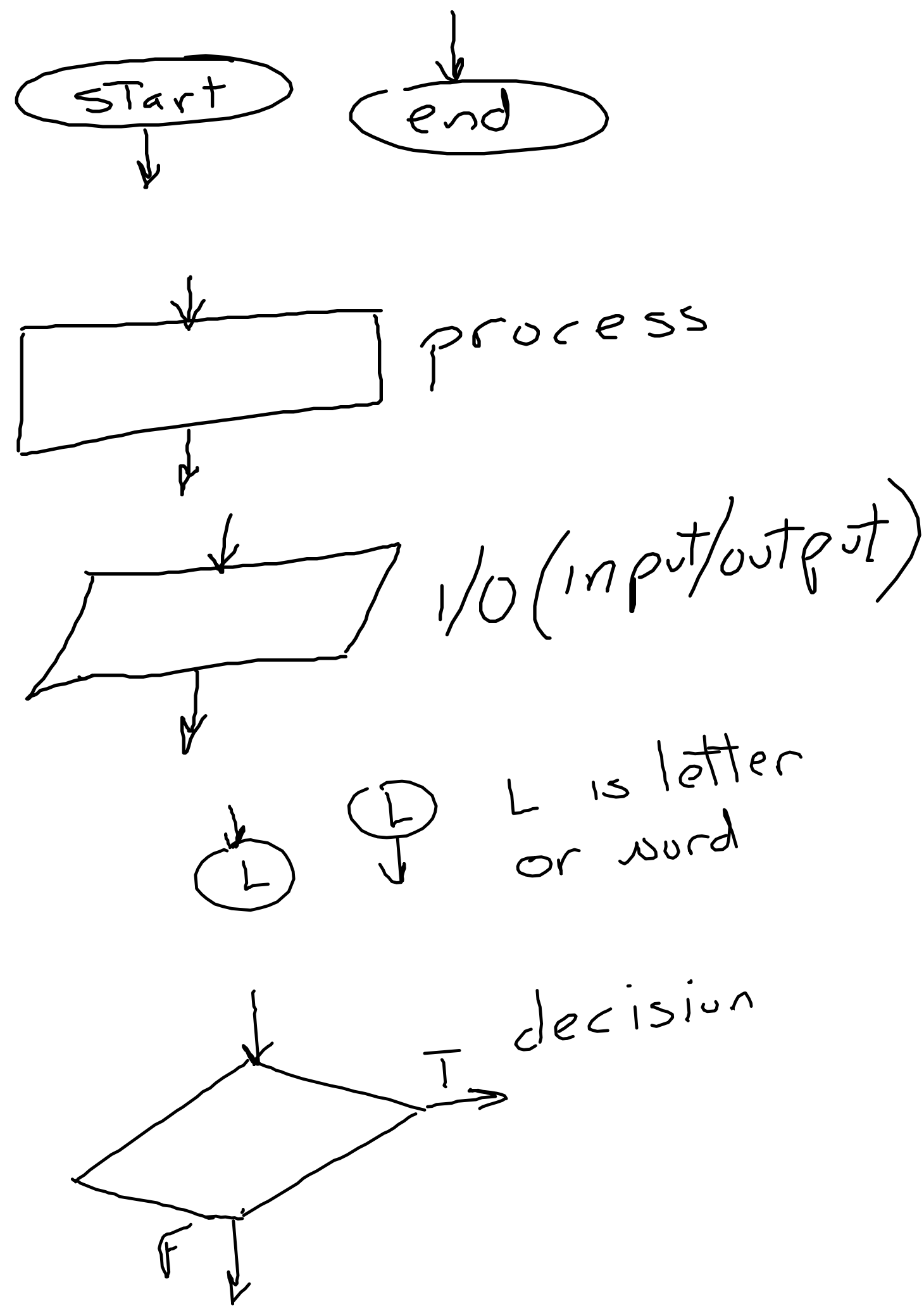
~ 4C in 16 bits

~ 004C

~ 0000 0000 0100 1100

1111 1111 1011 0011 = FF B3

Flowcharting - graphical way
to represent the flow
of a program

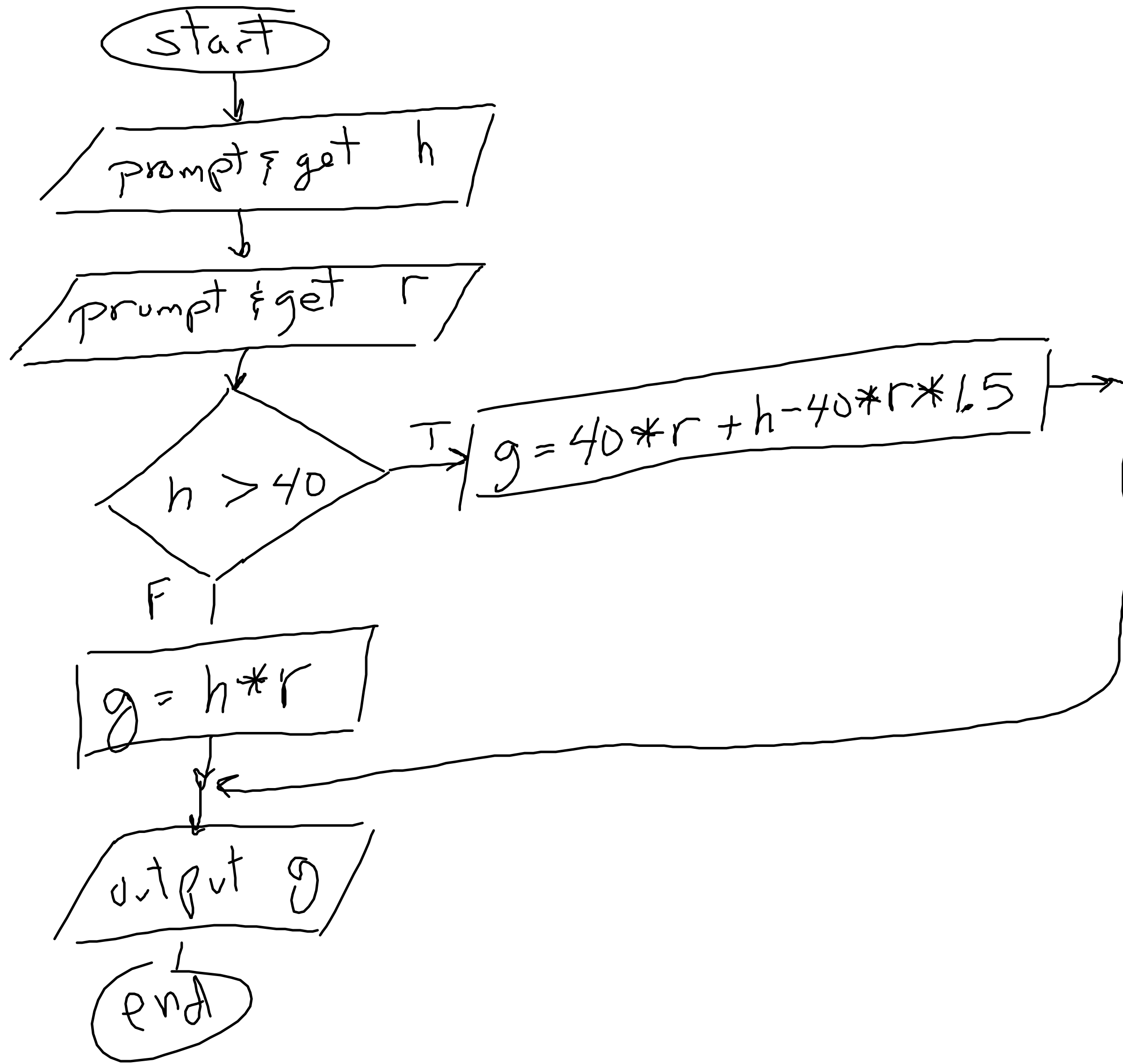


Payroll
rate \$15
worked 8 hours
Gross pay \$120 (~~8~~*15)

rate \$15
worked 40 hours
gross pay 600 (40*15)

rate \$15
worked 60 hours
gross pay \$1050
 $(40*15 + 20*15*1.5)$
600 450
 $n*r + (n-40)*r*1.5$

flowchart get hours (h) & rate (r)
 calc grosspay (g)



```
#include <stdio.h>
```

```
int main()
```

```
{
```

```
double h, r, g;
```

```
printf("Enter hours: ");
```

```
scanf("%lf", &h);
```

```
printf("Enter rate: ");
```

```
scanf("%lf", &r);
```

```
if (h > 40)
```

```
{
  g = 40*r + (h-40)*r*1.5;
```

```
else
```

```
  g = h*r;
```

```
}
printf("Gross pay is %lf", g);
```

```
}
```

if optional /
 statement only one

no ;

// print Hi for 1, Hello for 2, Bonjour for 3, Bonehead otherwise

```
scanf("%d", &ans);
```

```
if (ans == 1)  
    printf("Hi");
```

```
if (ans == 2)  
    printf("Hello");
```

```
if (ans == 3)  
    printf("Bonjour");
```

```
if (ans > 3)  
    printf("Bonehead");
```

```
if (ans < 1)  
    printf("Bonehead");
```