

## 5a -- What is programming ???

[Map](#)



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## What exactly is programming?



administrator Common Programming Questions

"Programming" is the process of writing instructions that the programming language uses to tell the computer what to do. Of course the explanation can get much more detailed and complicated than that, but that is a good basic idea for the beginner. Programming can be done on any platform ("platform" generally refers to the combination of hardware and software you are using – for example, AMD processor and Windows XP) you are likely to be using to read this page. We will assume that most beginners are likely to be using Windows, but you can write similar programs for other platforms such as those using Unix, Linux, or MAC operating systems.

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## What exactly is programming?

 administrator Common Programming Questions

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Author: James Reed

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**5aa -- You have FEARS of Computer Programming--you don't have the time or understanding!**

**Author:** James Reed

You have FEARS!!!



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**COMPUTER PROGRAMMING EXPERTISE IN 10 MINUTES OR LESS!!!!!!!!!!!!!!!!!!!!**

**5b - Lighting Course -- My Programming Model**

IPs

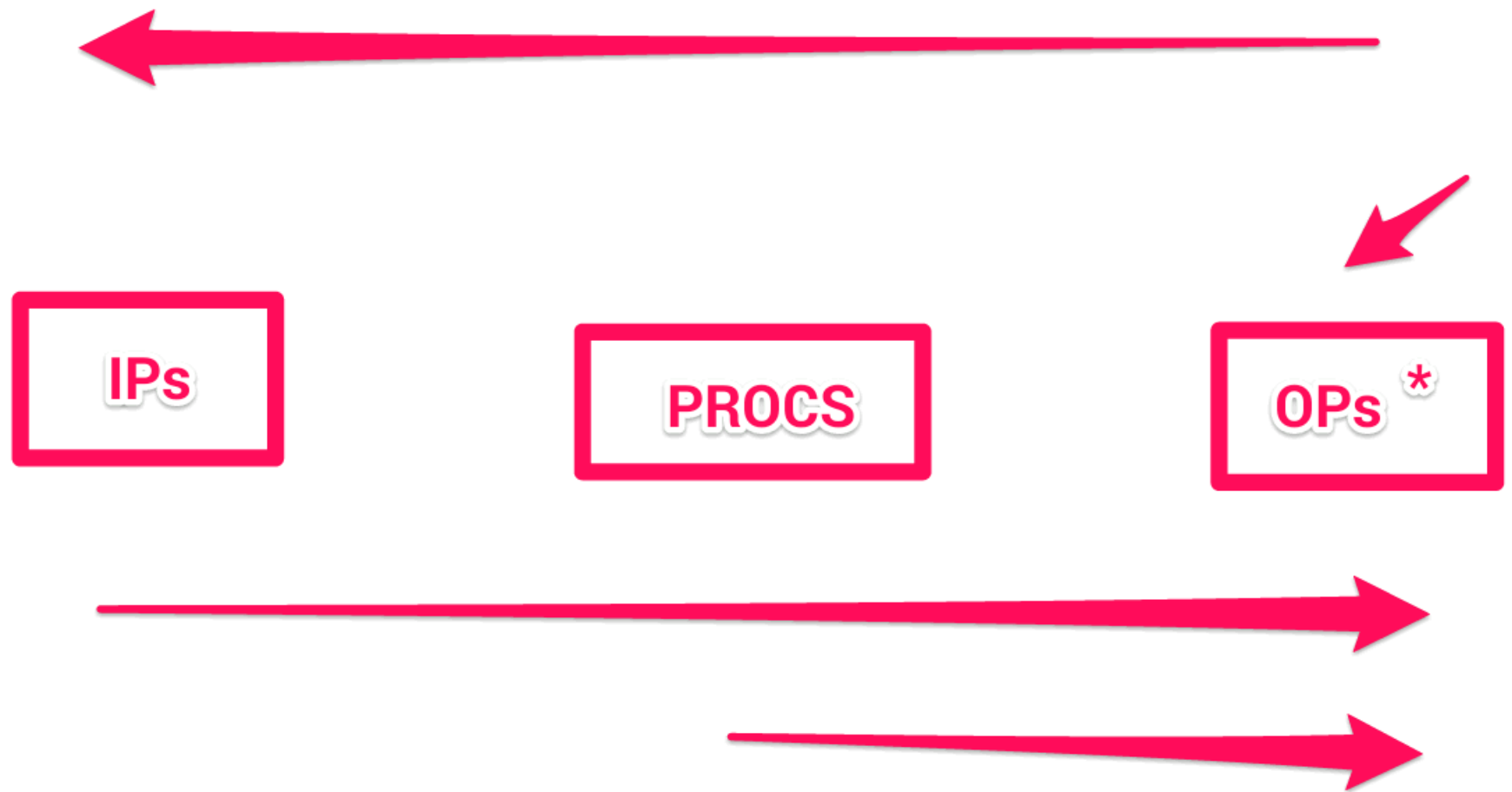


PROCS



OPs





\* Start with the outputs first!!!

IPs



PROCS



OPs



name



payrate



?



hrswrkd



grosspay



gp

IPs



PROCS



OPs



name



payrate



hrswrkd



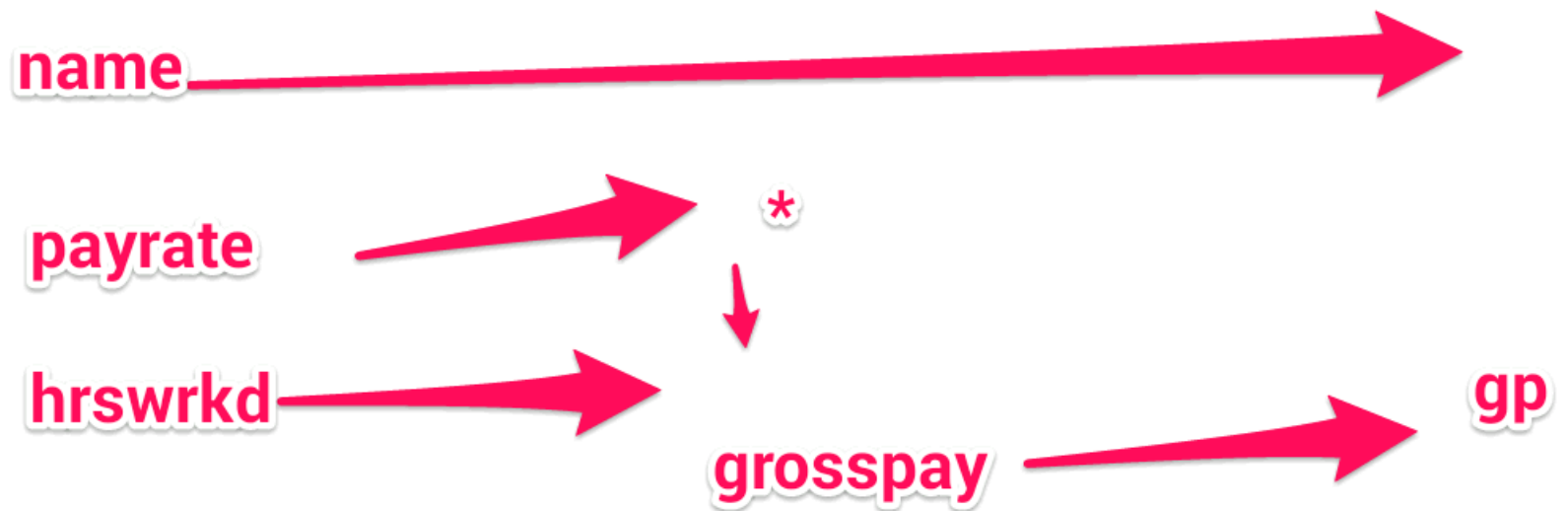
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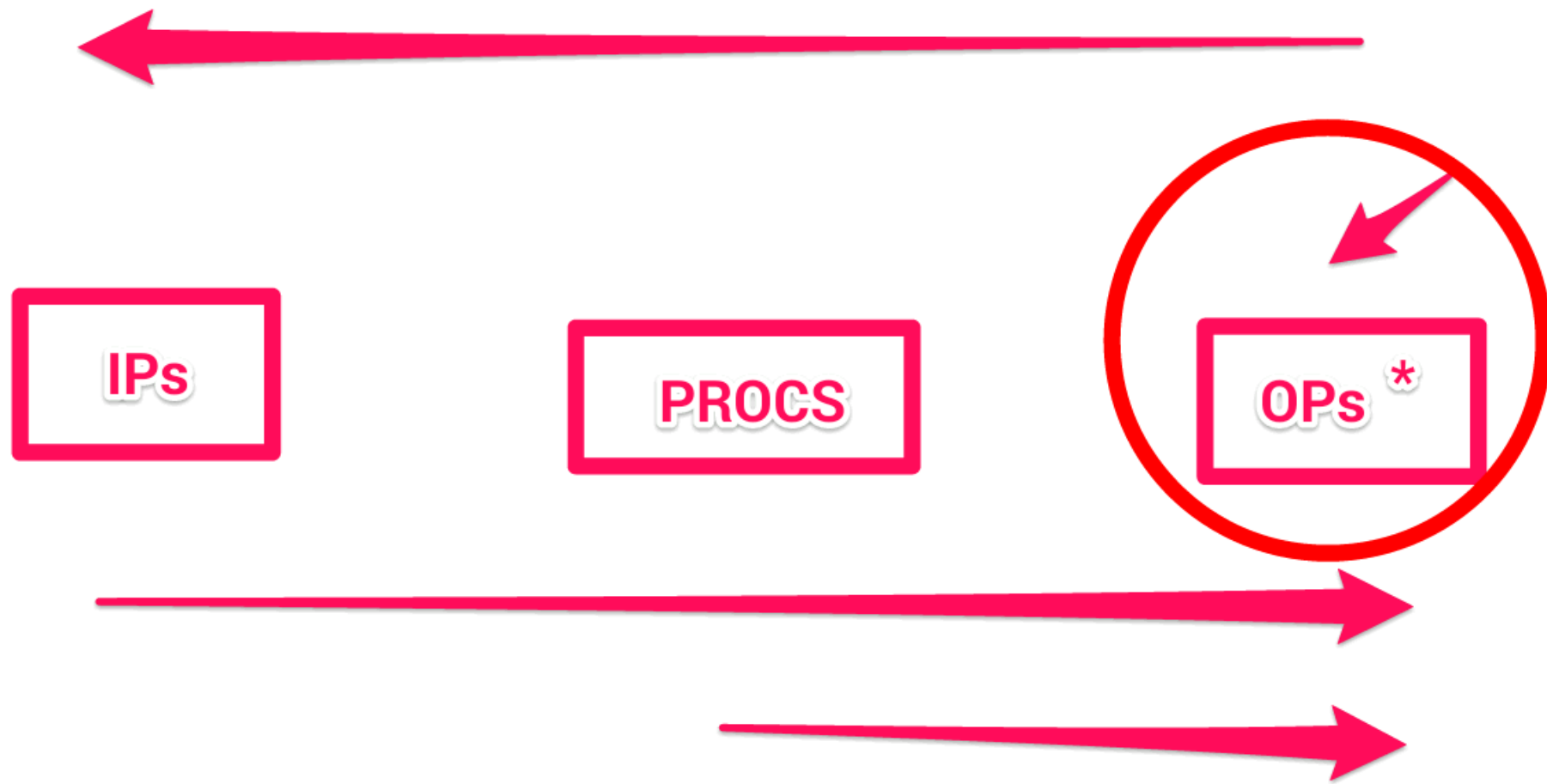




IPs

PROCS

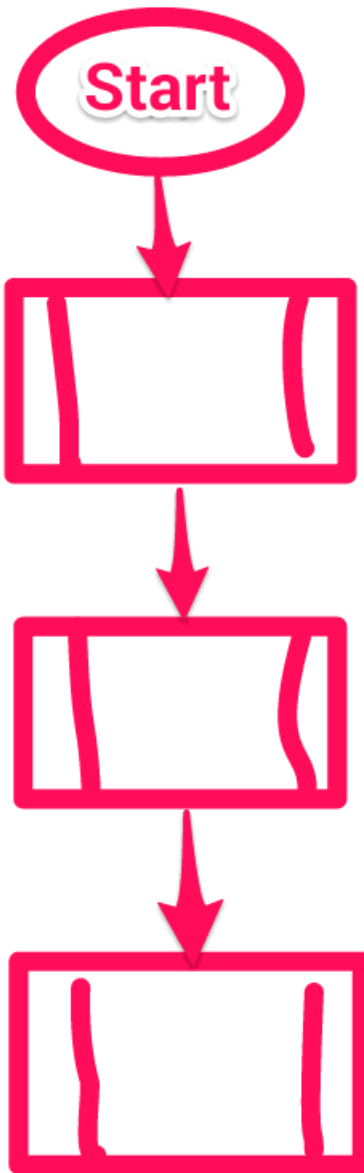
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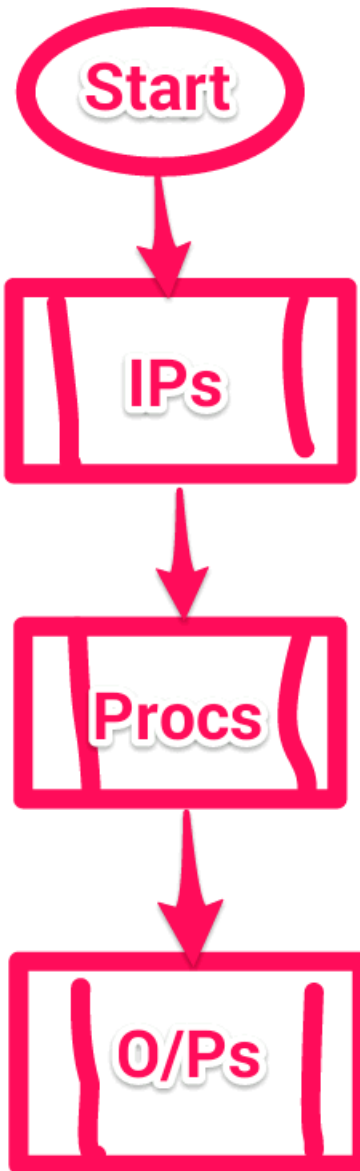


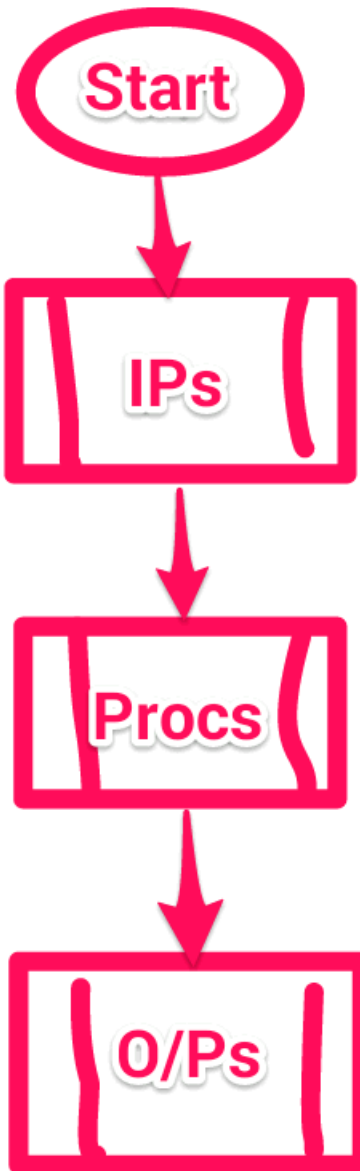
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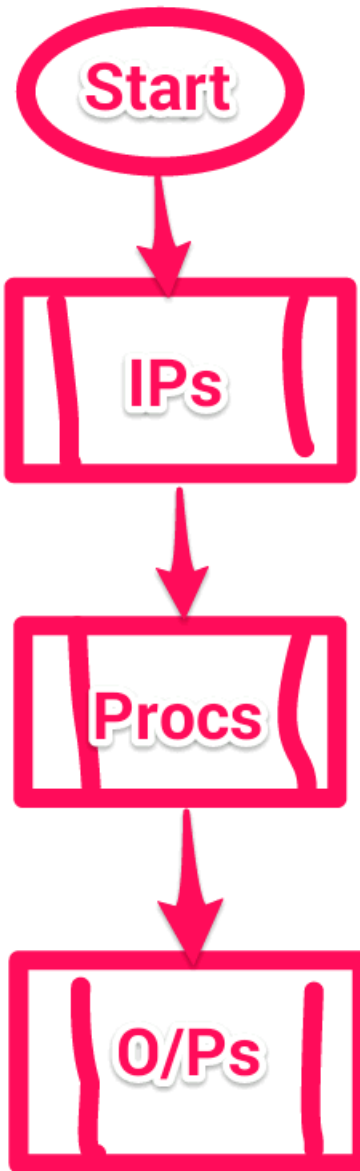
Start with the outputs first!!!

## **5c - Lighting Course -- Flowcharts Revisited**











## **5d - Lighting Course on Programming -- A idea on one of entry & one point of exit -- DON'T GO OFF AND GET LOST!**

### **Map**

- One point of entry
- One point of exit
- NO HAYWIRE-- don't go off and get lost!!!

## **5ee - YOU HAD FEARS!!!!!!!!!!!!!!!!!!!!!!**

**Author:** James Reed

You have FEARS!!!



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**YOU HAD FEARS OF COMPUTER PROGRAMMING -- NO LONGER!!!**

**5z -- "Your Shoes tell Your Age" - -Let's program this!**

**SourceURL:** [http://www.realclearscience.com/blog/2014/10/the\\_math\\_behind\\_the\\_shoe\\_size-age\\_trick\\_108920.html](http://www.realclearscience.com/blog/2014/10/the_math_behind_the_shoe_size-age_trick_108920.html)

**Author:** James Reed

## **"Your Shoes tell Your Age" - -Let's program this!**

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## **"Your Shoes tell Your Age" - -Let's program this!**

## Your shoes can tell your age!

Try this and see:

- 1) Take your shoe size  
(no half sizes, round up)
- 2) Multiply it by 5
- 3) Add 50
- 4) Multiply by 20
- 5) Add 1014
- 6) Subtract the year you were born



The first digit(s) are your shoe size & the last 2 digits are your age!

**Its shoe ----- magic!**

The "shoe magic" trick is making its way around the Internet. (See above.) It's a nifty little math trick, and it does indeed work (most of the time). I will first use my own data to demonstrate.

I wear a size 10 shoe.

$$10 \times 5 = 50.$$

## The Math Behind the 'Shoe Size-Age' Trick | RealClearScience

SourceURL: [http://www.realclearscience.com/blog/2014/10/the\\_math\\_behind\\_the\\_shoe\\_size-age\\_trick\\_108920.html](http://www.realclearscience.com/blog/2014/10/the_math_behind_the_shoe_size-age_trick_108920.html)

The "[shoe magic](#)" trick is making its way around the Internet. (See above.) It's a nifty little math trick, and it does indeed work (most of the

time). I will first use my own data to demonstrate.

**I wear a size 10 shoe.**

$$10 \times 5 = 50.$$

$$50 + 50 = 100$$

$$100 \times 20 = 2000$$

$$2000 + 1014 = 3014$$

**I was born in 1982.**

$$3014 - 1982 = 1032$$

**It works! Amazing! Indeed, my shoe size is 10, and I am 32 years old.**

How does this work? It requires a little bit of algebra to understand. Let's call shoe size "s" and your birth year "y." Now, let's do the trick again, using these letters instead of numbers.

*Multiple s by 5: 5s*

*Add 50: 5s + 50*

*Multiply by 20: 20(5s + 50) = 100s + 1000*

*Add 1014: 100s + 1000 + 1014 = 100s + 2014*

*Subtract birth year: 100s + 2014 - y*

Do you see why it works? No matter what your shoe size is, it will always be the first two digits of the answer. If your shoe is 12, then 100s = 1200. If you are European and your shoe size is 36, then 100s = 3600.

The age part should be obvious. 2014 (the current year) - y (your birth year) will give your age.

But this trick does not always work. If you were born in, say, *December 1982, then this trick would incorrectly conclude that you were 32 years old. In fact, you would be only 31.* The trick also does not work if *you are 100 years old or older.* If you were born in 1914 and wear a size 10 shoe, the trick would conclude that your shoe size is 11 and that you were 0 years old.

So, if you want to impress people with a math trick this Halloween, just be sure their birthday is sometime before November... and don't show it to any centenarians!

# Correction to the Shoe Size Age Math Trick!

**Author:** James Reed

## **Correction as follows:**

1. Take your shoe size
2. Now multiply it by 5
3. Add 50
4. Multiply by 20
5. *Now add 1011 (Last 2 digits in this number must be the 2 digits of the current year).*

Eg 1010 for 2010 and 1012 for 2012etc)

6. Subtract the year you were born.

The number you get will be your shoe size & your age.

The first 2 digits are your shoe size & last 2 are your age.

## Your shoes can tell your age!

Try this and see:

- 1) Take your shoe size  
(no half sizes, round up)
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