Functions Math world: f: R > R - Maps each input to a single output - Might be multivariate, f(x,y) (domain is RXIR) In C/C++, they work a bit differently. "prototype" Notation: C/C+: V math-world: f: Z->R double f (int); range domain f is "single-valued" f(2) might sive different i.o, f(2) can never change results each time it defined by rules: f(x) = x +1 double f (int x) { return xxx +1; Example usase! "function call"
int main () (double y = f(4); cout ccy cc" n";

11 print 17 return oi "By value" us "By reference" parans say A is delined as int f(int x) { return xxx + 1;} Now in another Ranction, we have this:

11'in main int y, Z;

2 - P(y); what does onevery look like during the call? what 5 the (physical) relationship between x, y? Exaple void 9 (int x) Void h (int & x)

{ x = 99;
return;
} int y=7; 9(1); wat << y << " " " / prints 7 cout << y << " \n"; // pr.nts 99

to g vs h: Picture for calls "by value" "by reference" N. "&" int read int () int n;

Cin >> N;

return n; 1 in main int m = rad int O;