Intro C Evaluation Assignment

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```
// witness the POWER and MIGHT of WHITNEYC
thinclude <stdio.h>
typedef char C; typedef int I;

#define P printf
#define S scanf
#define R return
#define F(i,s,e) for(I i=s;i<e;i++)
C *choose_mover(I b){R 200*((b+22)/23)<260*((b+29)/30)?"Alice":"Bob";}
main(){F(n,1,30){P("%d: %s\n", n, choose_mover(n));}}</pre>
```

```
1  // good luck
2  #include <stdio.h>
3  #include <math.h>
4  typedef int I;
5  #define P printf
6  #define R return
7  #define W while(1)
8  #define F(i,s,e) for(I i=s;i<e;i++)
9  I powers(I n){I r=0,b=2;W{I a=(I)(log(n-1)/log(b))-1;if(a<=0)R(r);r+=a;b++;}}
10  main(){F(n,2,30){P("%d: %d\n",n,powers(n));}}</pre>
```

```
1  //:^)
2  #include <stdio.h>
3  typedef int I;
4  #define R return
5  #define P printf
6  #define W while
7  #define F(i,s,e) for(I i=s;i<e;i++)
8  I f(I n){I p=0,c=1;W(n-->1){I t=p;p=c;c+=t;}R(c);}
9  main(){F(n,1,30){P("%d\n", f(n));}}
```

5. Makefile

```
1 1:
          gcc 1.c -o bin/1
3 run1:
            1
         ./bin/1
5 2:
          gcc 2.c -o bin/2
7 run2:
         ./bin/2
9
          gcc 3.c -o bin/3 -lm
10
   run3:
11
         ./bin/3
12
13
          gcc 4.c -o bin/4
14
  run4:
           4
15
          ./bin/4
16
```