

## Khmer New year exercise:

Just start:

```
if (x=3):
```

```
    if(x<3):
```

```
        print (3)
```

```
else:
```

```
    if(y>3):
```

```
        if(z>10):
```

```
            print (4)
```

```
    else:
```

```
        print (1)
```

### Challenge 1:

```
goforward (2)
```

```
pickup diamond
```

```
for n in range (3):
```

```
    for n in range (3):
```

```
        goforward
```

```
        pickup diamond
```

```
    goforward
```

```
    turnaround
```

```
    jump
```

```
goforward
```

### Challenge2:

```
goforward
```

```
pickup diamond
```

```
goforward
```

```
for n in range (4):
```

```
    for n in range (4):
```

```
        goforward
```

```
        if <has cake>:
```

eat cake

elif< has diamond>:

pick up diamond

turnaround

jump

go forward

### Challenge3:

go right

while<has no flag>

for n in range (4)

go down

if<has cake>:

eat cake

elif:

pick up diamond

for n in range (4):

go up

go right(2)

### Challenge4:

move right

N= number of boxes

Move right

Move up

For n in range(N):

move right

pick up ball

move right

drop ball

move left(2)

moveup

### challenge5:

N=1

for n in range (8)

for n in range (n):

moveup

moveright

pickup

for n in range (N):

movedown

dropball

N=N+1

### Challenge6:

moveright

interaction=0

while<has ball>:

moveright

interaction=interaction+1

for n in range (interaction):

moveleft

for n in range(interaction):

pickupball

for n in range (interaction):

moveright

dropball

for n in range (interaction-1)

moveleft

### Challenge7:

Moveright

interaction=nbofbox

```
variable =1
movedown
for n in range(interaction):
    for n in range(variable):
        moveright
        paint the box
    for n in range(variable):
        moveleft
    movedown
    variable=variable+1
```

### Challenge 8:

```
moveright(2)
a=0
for n in range(5)
    if nbofbox>10:
        a=a+1
        moveright
    else:
        moveright
moveright(3)
write(a)
```

### Challenge 9:

This code will print:

Hugo  
channak

### Challenge 10:

```
number=int(input("Number:"))
if (number>=3) and (number<=5):
    print ("Range 3-5")
if (number>=4) and (number<=9):
```

```
print ("Range 4-9")
```

#### Challenge 11:

```
x=int(input("X="))
y =int(input("Y="))
if (x>=2 and x<=6) and (y>=4 and y<=10):
    print ("Case 1")
if (x>=9 and x<=11) and (y>=4 and y<=8):
    print(" Case 2")
```

#### Challenge 12:

```
y=int(input("Y="))
x=int(input("X="))
if((y>=1 and y<=3) or (y>=7 and y<=9)) and ((x>=10 and x<=13) or (x>=4 and x<=8)):
    print("GOOD")
else:
    print("BAD")
```

#### Challenge13:

```
z=int(input("Z="))
y=int(input("Y="))
x=int(input("X="))
if((z>=3 and z<=10 ) or(z>=13 and z<=15))and ((y>=1 and y<=3) or (y>=7 and y<=9)) and ((x>=10 and x<=13) or
(x>=4 and x<=8)):
    print("GOOD")
else:
    print("BAD")
```

#### Challenge 14:

This code will print : **6**

#### Challenge 15:

This code will print :3

#### Challenge 16:

This code will print :

3

6

11

**Challenge 17:**

This code will print :

1  
2  
3

**Challenge 18:**

b=6

for n in range(6):

    print (n+1 , "AND", b)

    b=b-1

**Challenge 19:**

z=int(input("Z="))

y=int(input("Y="))

x=int(input("X="))

if x<y and x<z:

    print("mini:",x)

elif y<x and y<z:

    print("mini:",y)

if z<x and z<y:

    print("mini:",z)

elif x>y and x>z:

    print("max:",x)

if y>x and y>z:

    print("max:",y)

elif z>x and z>y:

    print("max:",z)

**Challenge20:**

number=int(input("Number of values:"))

for n in range(number):

    nb=(input("Value:"))

    if n==0:

        max=nb

    else:

```
        if nb>max:
            max=nb

print("max"+str(max))
```

### Challenge 21:

```
valuetofind=int(input("value to find="))

a=True

b=0

while a:

    numberoftried=int(input())

    b= b+1

    if valuetofind==numberoftried:

        a=False

print("number of tried:",b)
```