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unreal blueprint exercises

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Algorithm I

```
int number = 42;

if (GetNumber() % 2 == 0) {
    PrintString("Even Number!");
    } else {
    PrintString("Odd Number!");
}
```

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Algorithm 2

```
float Health = 100;
int Score = 0;

if(GetHealth() > 75){
 SetScore(GetScore() + (GetScore() x 2) + 2);
 PrintString(GetScore());
}
```

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Algorithm 3

```
float A = 20;
float B = 0;

PrintString(GetA() + GetB());
PrintString(GetA() - GetB());
PrintString(GetA() x GetB());
if(GetB() != 0){
 PrintString(GetA() / GetB());
} else {
 PrintString("you can't divide by zero");
}
```

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Algorithm 4

```
int number = 5;
int result = 1;

for (i = 1; i <= GetNumber(); i++) {
    SetResult(GetResult() x i);
}

PrintString(GetResult());
```

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Algorithm 5

```
for(i = 0; i < 20; i++) {
    for(j = 0; j <= i; j++) {
        PrintString(i + j);
    }
}

PrintString("Loop completed");
}
```

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Algorithm 6

```
int numbers[] = {1, 2, 3, 4, 5, 6};
int sum = 0;

for (int i = 0; i < numbers.length;
i++) {
    SetSum(GetSum() + numbers[i]);
}

PrintString(GetSum());
```

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Algorithm 7

```
int number = 2548;
int digit = 0;
int sum = 0;

While (GetNumber() > 0){
    SetDigit(GetNumber() % 10);
    SetSum(GetSum() + GetDigit());
    SetNumber(GetNumber() / 10);
}
PrintString(GetSum());
```

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Algorithm 8

```
//Function declaration
int Add(int A, int B, int C) {
    return GetA() + GetB() + GetC();
}

//Main algorithm
PrintString(Add(5,20,6));
PrintString(Add((103,75,1));
```

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Algorithm 9

```
//Function declaration
boolean IsEven(int Number) {
    return GetNumber() % 2 == 0;
}

//Main algorithm
if (!IsEven(55)) {
    PrintString("The number is even");
} else {
    PrintString("The number is odd");
}
```

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Algorithm 10

```
//Function declaration
float Max(float A, float B) {
    if (GetA() > GetB()) {
        return GetA();
    } else {
        return GetB();
    }
}

//Main algorithm
PrintString(Max(52,30));
```

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Algorithm II

```
//Function declaration
int SumDigits(int Number) {
    int Sum = 0;
    int Digit = 0;
    int Num = 0;
    SetNum(GetNumber());
    While (GetNum() > 0){
        SetDigit(GetNum() % 10);
        SetSum(GetSum() + GetDigit());
        SetNum(GetNum() / 10);
    }
    return GetSum();
}
```

```
//Main algorithm
PrintString(SumDigits(5678));
```