

# Stack


Call Method with  
Value Types Arguments

```
static int Main()
```

```
{  
    int a = 5, y = 3, result;  
    result = pow(a, y);  
}
```

```
static int pow(int a, int b)
```

```
{  
    int res = 1;  
    for(int i=0; i<b; i++)  
    {  
        res *= a;  
    }  
    return res;  
}
```



Address	Name	Stack
		Yellow
		Green
		Green
		Green
		Green
		Green
		Green
		Green
		Green
		Green



```
static int Main()
{
    int a = 5, y = 3, result;
    result = pow(a, y);
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static int pow(int a, int b)
{
    int res = 1;
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    {
        res *= a;
    }

    return res;
}
```

Address	Name	Stack
\$FFFF	a	5
\$FFFB	y	10





```
static int Main()
{
    int a = 5, y = 3, result;
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Address	Name	Stack
\$FFFF	a	5
\$FFFB	y	10
\$FFF7	result	



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static int Main()
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    result = pow(a, y);
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static int pow(int a, int b)
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Address	Name	Stack
\$FFFF	a	5
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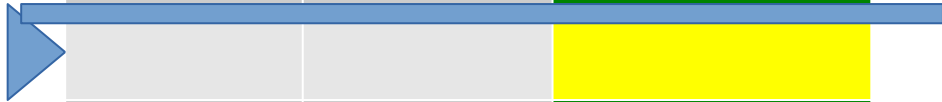


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Address	Name	Stack
\$FFFF	a	5
\$FFFB	y	10
\$FFF7	result	





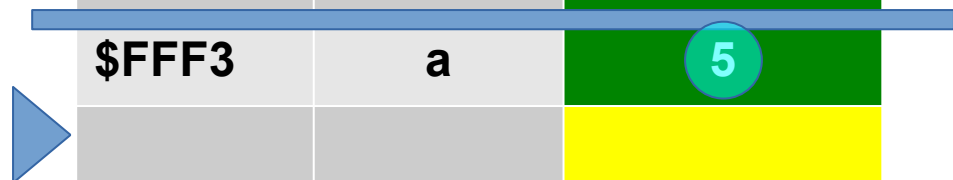


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```

Address	Name	Stack
\$FFFF	a	5
\$FFFB	y	10
\$FFF7	result	
\$FFF3	a	5





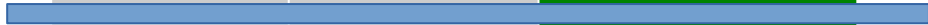


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\$FFF7	result	
\$FFF3	a	5
\$FFE7	b	3



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Address	Name	Stack
\$FFFF	a	5
\$FFFB	y	3
\$FFF7	result	
\$FFF3	a	5
\$FFEF	b	3
\$FFEB	Return address	\$FFF7

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\$FFF7	result	
\$FFF3	a	5
\$FFE7	b	3
\$FFEB	Return address	\$FFF7
\$FFE7	res	1

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\$FFFB	y	3
\$FFF7	result	
\$FFF3	a	5
\$FFEF	b	3
\$FFEB	Return address	\$FFF7
\$FFE7	res	1
\$FFE3	i	0



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}

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\$FFEB	Return address	\$FFF7
\$FFE7	res	1
\$FFE3	i	0

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\$FFF7	result	
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\$FFE7	b	3
\$FFEB	Return address	\$FFF7
\$FFE7	res	5
\$FFE3	i	0

```

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\$FFF7	result	
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\$FFE7	b	3
\$FFEB	Return address	\$FFF7
\$FFE7	res	5
\$FFE3	i	0

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\$FFF7	result	
\$FFF3	a	5
\$FFE7	b	3
\$FFEB	Return address	\$FFF7
\$FFE7	res	5
\$FFE3	i	1

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\$FFF7	result	
\$FFF3	a	5
\$FFEF	b	3
\$FFEB	Return address	\$FFF7
\$FFE7	res	5
\$FFE3	i	1

```

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    int a = 5, y = 3, result;
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\$FFF7	result	
\$FFF3	a	5
\$FFE7	b	3
\$FFEB	Return address	\$FFF7
\$FFE7	res	5
\$FFE3	i	1



```

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    int a = 5, y = 3, result;
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\$FFFB	y	3
\$FFF7	result	
\$FFF3	a	5
\$FFEF	b	3
\$FFEB	Return address	\$FFF7
\$FFE7	res	5
\$FFE3	i	1

```

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```

Address	Name	Stack
\$FFFF	a	5
\$FFFB	y	3
\$FFF7	result	
\$FFF3	a	5
\$FFE7	b	3
\$FFEB	Return address	\$FFF7
\$FFE7	res	25
\$FFE3	i	1

```

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Address	Name	Stack
\$FFFF	a	5
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\$FFF7	result	
\$FFF3	a	5
\$FFEF	b	3
\$FFEB	Return address	\$FFF7
\$FFE7	res	25
\$FFE3	i	1

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Address	Name	Stack
\$FFFF	a	5
\$FFFB	y	3
\$FFF7	result	
\$FFF3	a	5
\$FFEF	b	3
\$FFEB	Return address	\$FFF7
\$FFE7	res	25
\$FFE3	i	2

```

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    int a = 5, y = 3, result;
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\$FFE7	res	25
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\$FFE3	i	2

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Address	Name	Stack
\$FFFF	a	5
\$FFFB	y	3
\$FFF7	result	
\$FFF3	a	5
\$FFE7	b	3
\$FFEB	Return address	\$FFF7
\$FFE7	res	125
\$FFE3	i	2



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