

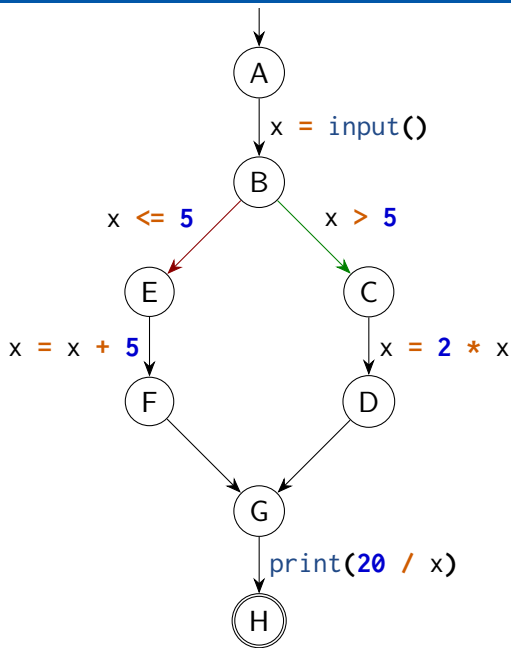
Abstraktne interpretatsioon

Simmo Saan

LTAT.03.023 Automaatide, keelte ja translaatorite süvenduspraktikum
Arvutiteaduse instituut, Tartu Ülikool

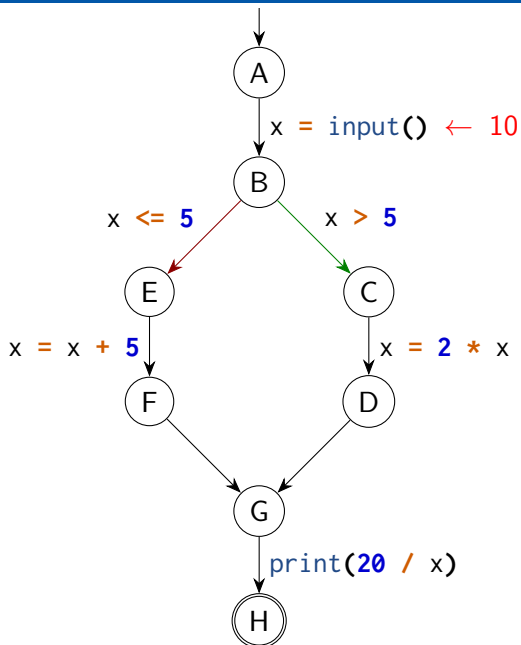
Kevad 2022/23

```
1 x = input()
2 if x > 5:
3     x = 2 * x
4 else:
5     x = x + 5
6 print(20 / x)
```



Üks programm sisendiga 10

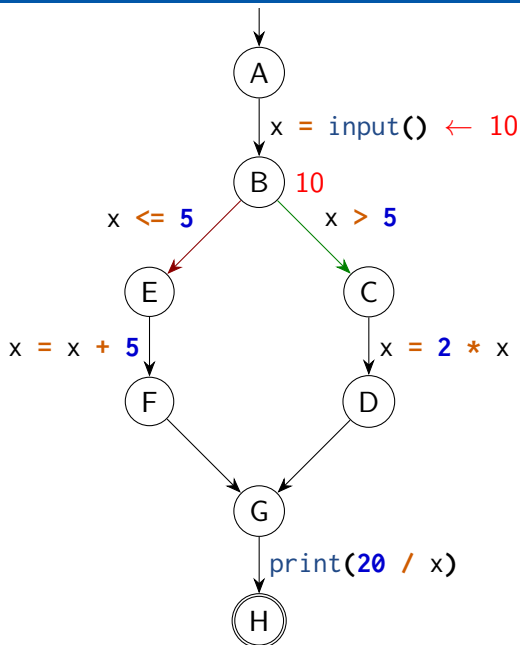
```
1 x = input()
2 if x > 5:
3     x = 2 * x
4 else:
5     x = x + 5
6 print(20 / x)
```



Mis juhtub sisendiga 10?

Üks programm sisendiga 10

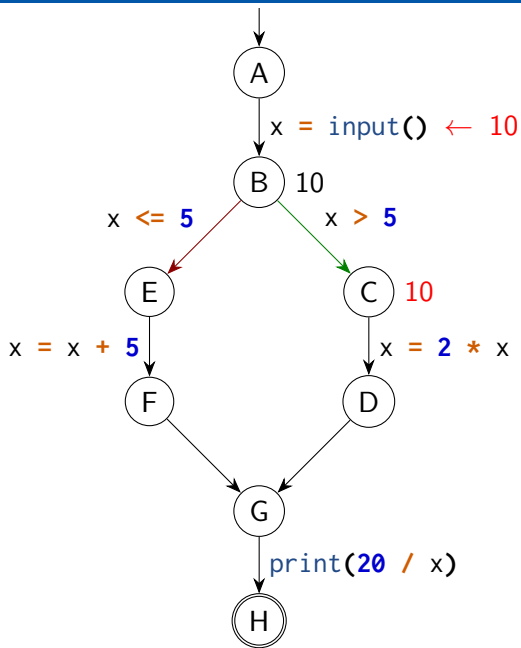
```
1 x = input()
2 if x > 5:
3     x = 2 * x
4 else:
5     x = x + 5
6 print(20 / x)
```



Mis juhtub sisendiga 10?

Üks programm sisendiga 10

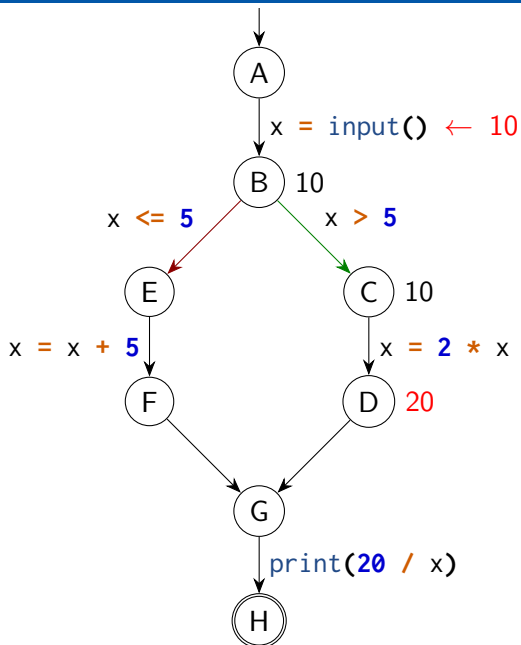
```
1 x = input()
2 if x > 5:
3     x = 2 * x
4 else:
5     x = x + 5
6 print(20 / x)
```



Mis juhtub sisendiga 10?

Üks programm sisendiga 10

```
1 x = input()
2 if x > 5:
3     x = 2 * x
4 else:
5     x = x + 5
6 print(20 / x)
```

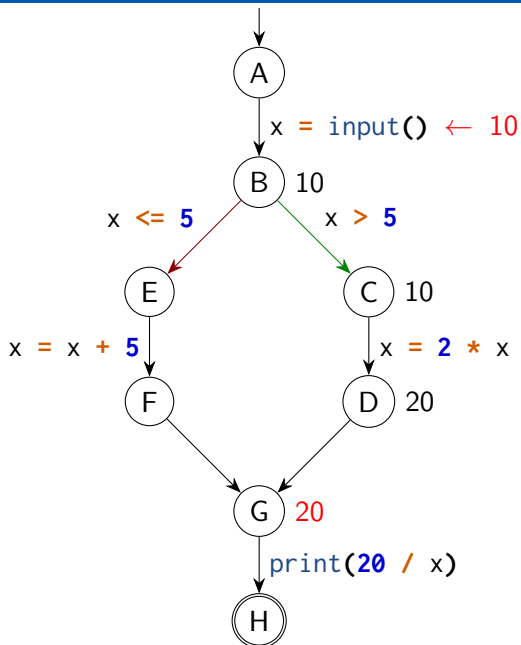


Mis juhtub sisendiga 10?

Üks programm sisendiga 10

```
1 x = input()
2 if x > 5:
3     x = 2 * x
4 else:
5     x = x + 5
6 print(20 / x)
```

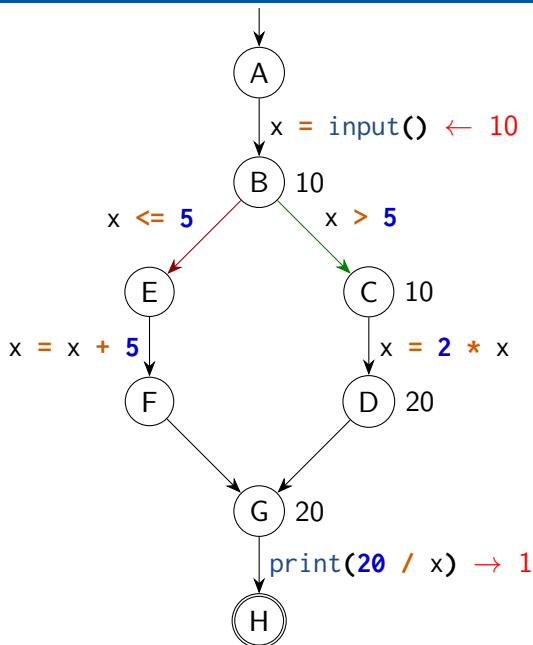
Mis juhtub sisendiga 10?



Üks programm sisendiga 10

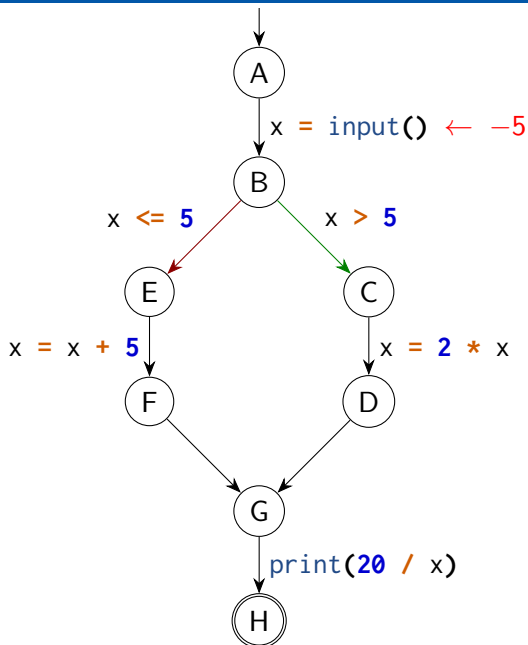
```
1 x = input()
2 if x > 5:
3     x = 2 * x
4 else:
5     x = x + 5
6 print(20 / x)
```

Mis juhtub sisendiga 10?



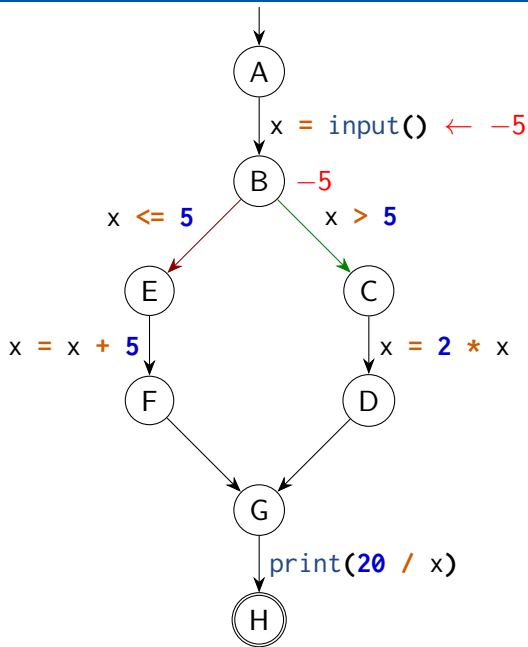
```
1 x = input()
2 if x > 5:
3     x = 2 * x
4 else:
5     x = x + 5
6 print(20 / x)
```

Mis juhtub sisendiga –5?



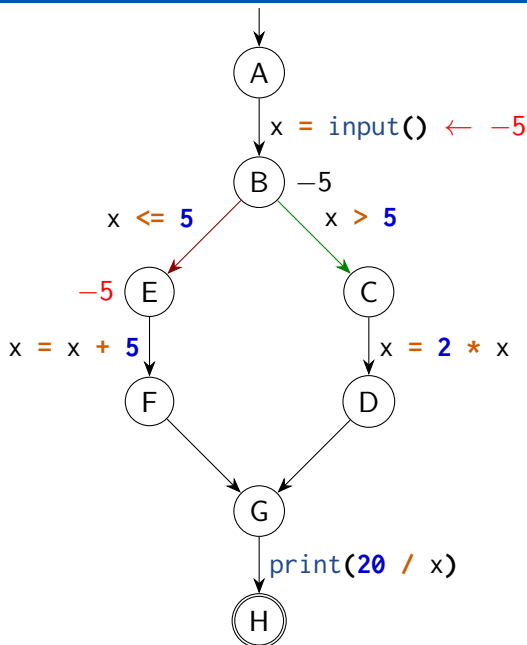
```
1 x = input()
2 if x > 5:
3     x = 2 * x
4 else:
5     x = x + 5
6 print(20 / x)
```

Mis juhtub sisendiga -5?



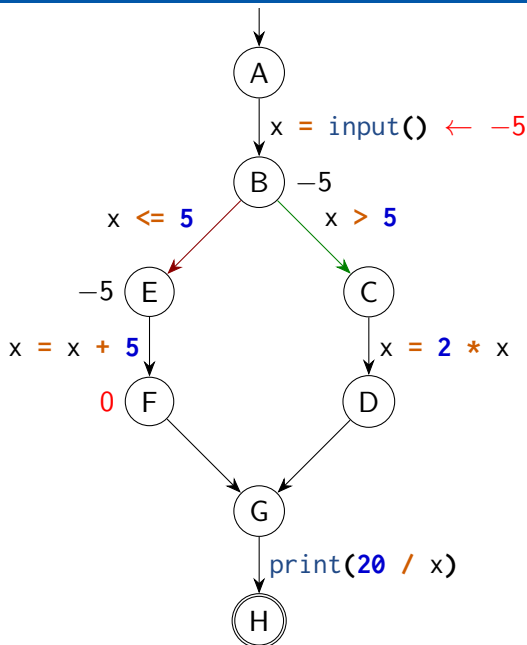
Üks programm sisendiga -5

```
1 x = input()
2 if x > 5:
3     x = 2 * x
4 else:
5     x = x + 5
6 print(20 / x)
```



Mis juhtub sisendiga -5?

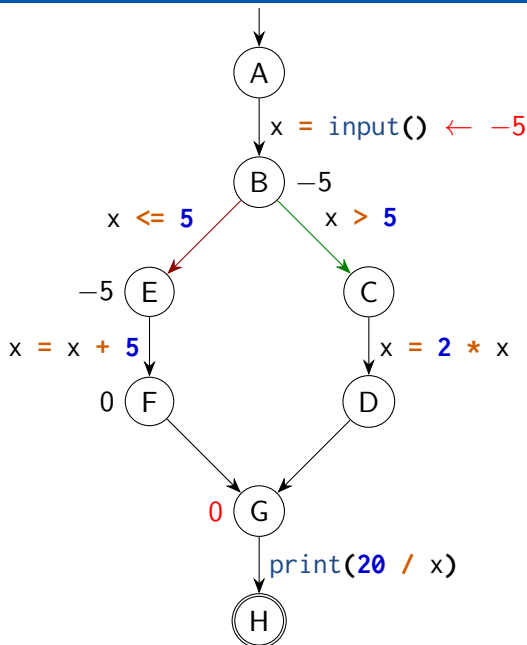
```
1 x = input()
2 if x > 5:
3     x = 2 * x
4 else:
5     x = x + 5
6 print(20 / x)
```



Mis juhtub sisendiga -5?

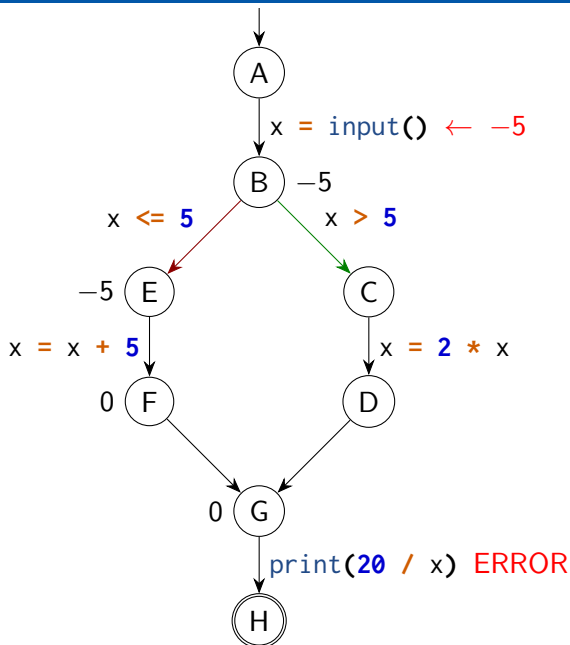
```
1 x = input()
2 if x > 5:
3     x = 2 * x
4 else:
5     x = x + 5
6 print(20 / x)
```

Mis juhtub sisendiga –5?



```
1 x = input()
2 if x > 5:
3     x = 2 * x
4 else:
5     x = x + 5
6 print(20 / x)
```

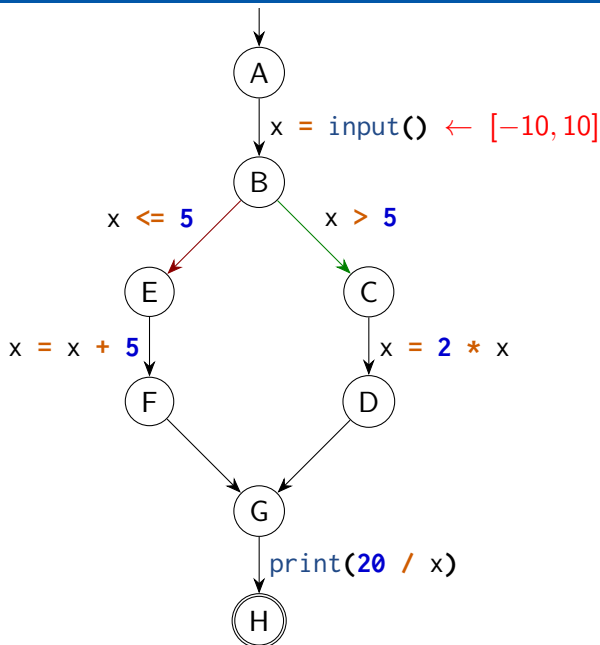
Mis juhtub sisendiga –5?



Üks programm sisendiga $[-10, 10]$

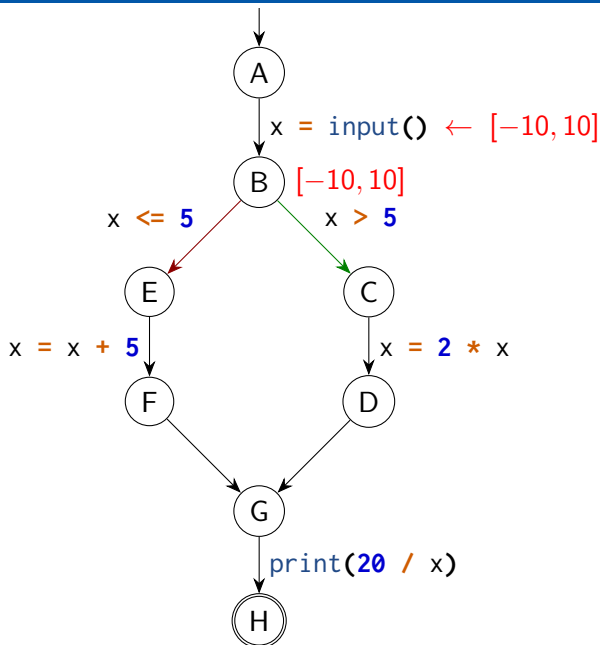
```
1 x = input()
2 if x > 5:
3     x = 2 * x
4 else:
5     x = x + 5
6 print(20 / x)
```

Mis juhtub sisendiga $[-10, 10]$?



Üks programm sisendiga $[-10, 10]$

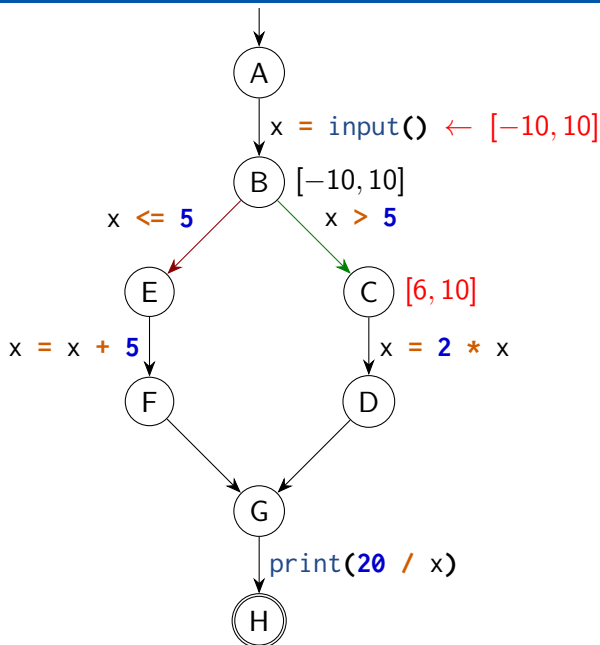
```
1 x = input()
2 if x > 5:
3     x = 2 * x
4 else:
5     x = x + 5
6 print(20 / x)
```



Mis juhtub sisendiga $[-10, 10]$?

Üks programm sisendiga $[-10, 10]$

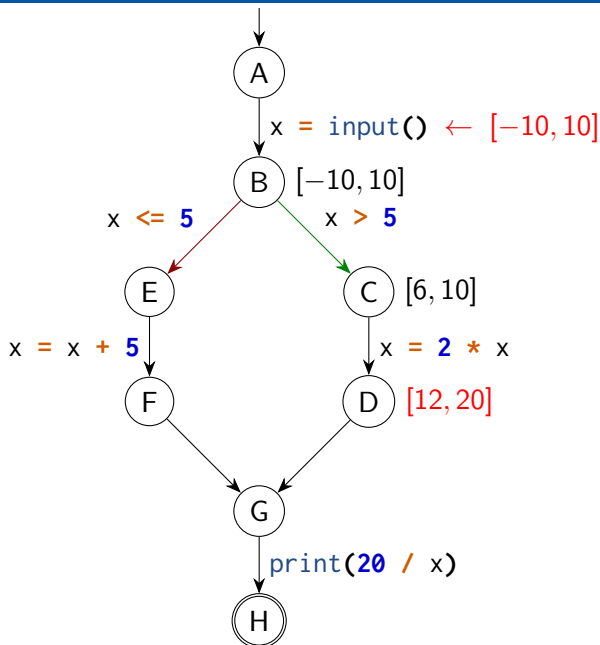
```
1 x = input()
2 if x > 5:
3     x = 2 * x
4 else:
5     x = x + 5
6 print(20 / x)
```



Mis juhtub sisendiga $[-10, 10]$?

Üks programm sisendiga $[-10, 10]$

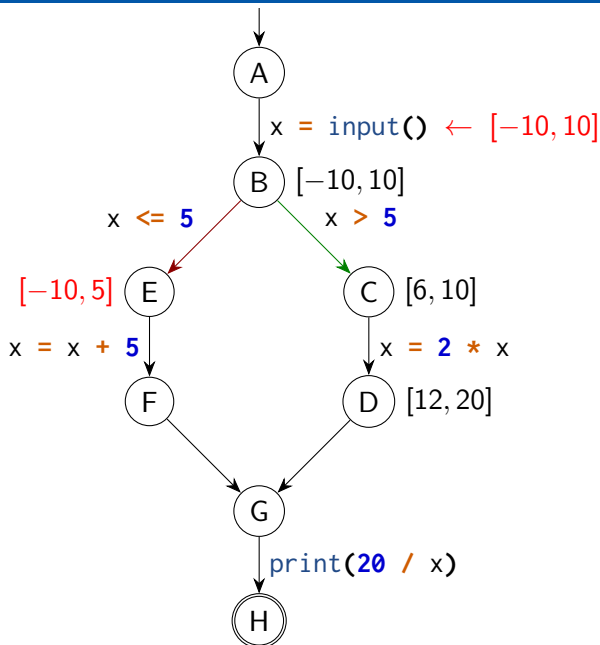
```
1 x = input()
2 if x > 5:
3     x = 2 * x
4 else:
5     x = x + 5
6 print(20 / x)
```



Mis juhtub sisendiga $[-10, 10]$?

Üks programm sisendiga $[-10, 10]$

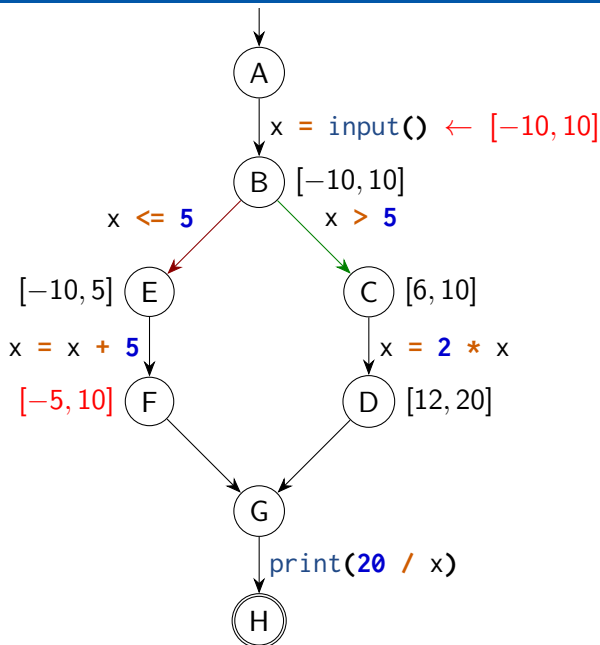
```
1 x = input()
2 if x > 5:
3     x = 2 * x
4 else:
5     x = x + 5
6 print(20 / x)
```



Mis juhtub sisendiga $[-10, 10]$?

Üks programm sisendiga $[-10, 10]$

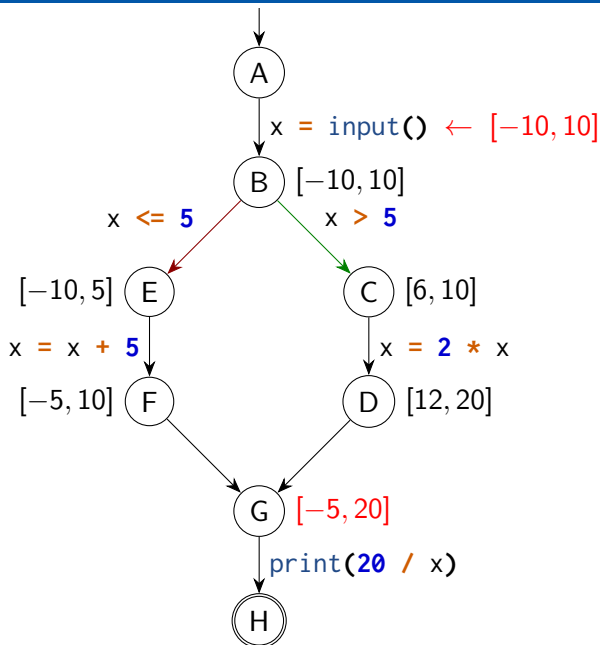
```
1 x = input()
2 if x > 5:
3     x = 2 * x
4 else:
5     x = x + 5
6 print(20 / x)
```



Mis juhtub sisendiga $[-10, 10]$?

Üks programm sisendiga $[-10, 10]$

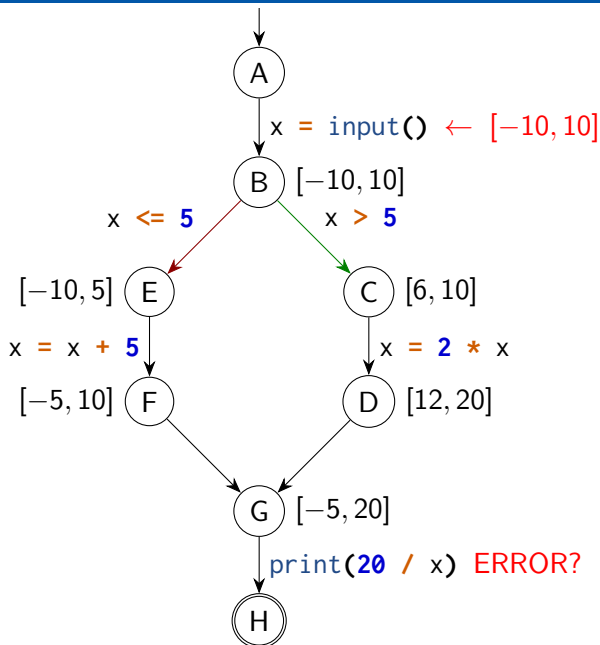
```
1 x = input()
2 if x > 5:
3     x = 2 * x
4 else:
5     x = x + 5
6 print(20 / x)
```



Mis juhtub sisendiga $[-10, 10]$?

Üks programm sisendiga $[-10, 10]$

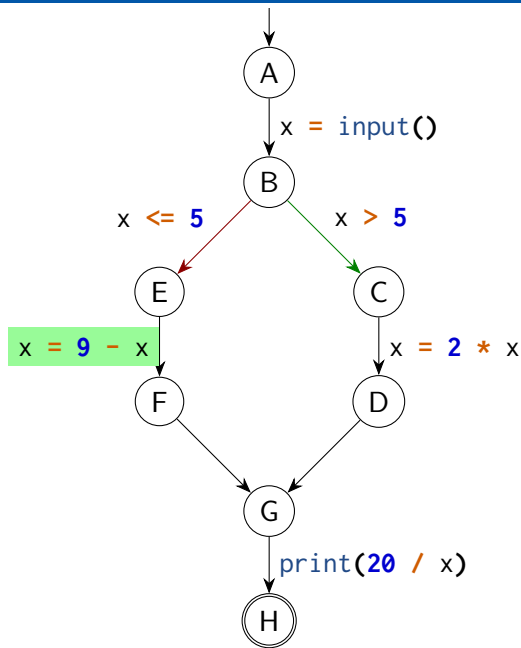
```
1 x = input()
2 if x > 5:
3     x = 2 * x
4 else:
5     x = x + 5
6 print(20 / x)
```



Mis juhtub sisendiga $[-10, 10]$?

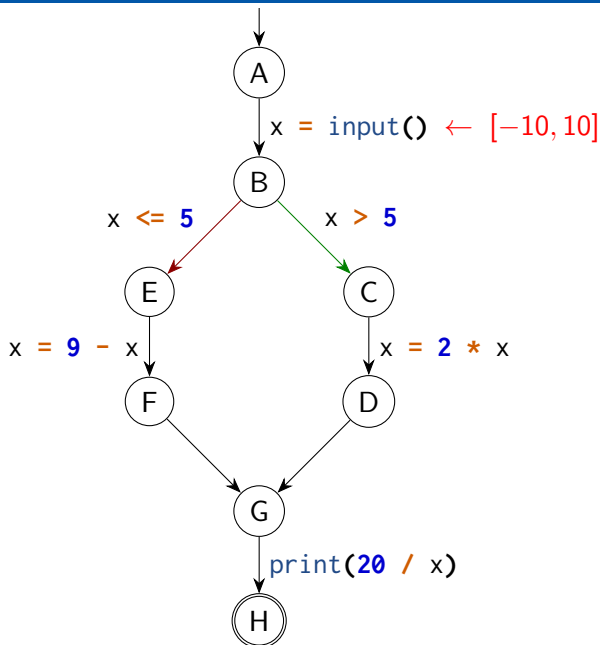
Teine programm

```
1 x = input()
2 if x > 5:
3     x = 2 * x
4 else:
5     x = 9 - x
6 print(20 / x)
```



Teine programm sisendiga $[-10, 10]$

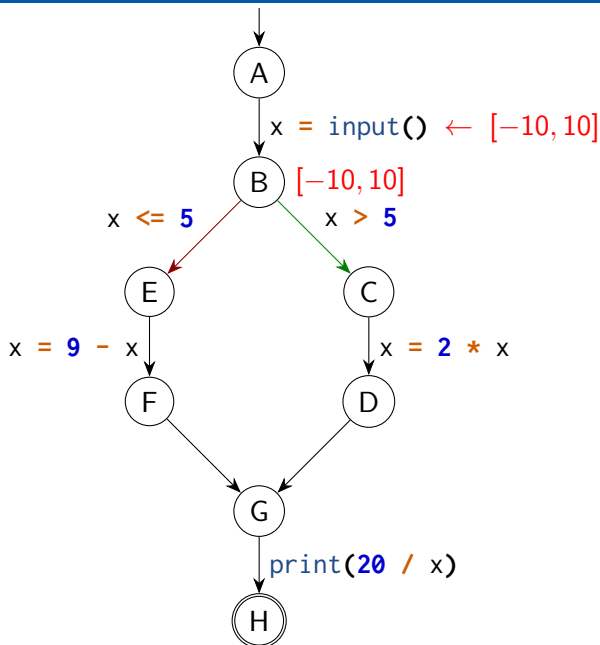
```
1 x = input()
2 if x > 5:
3     x = 2 * x
4 else:
5     x = 9 - x
6 print(20 / x)
```



Mis juhtub sisendiga $[-10, 10]$?

Teine programm sisendiga $[-10, 10]$

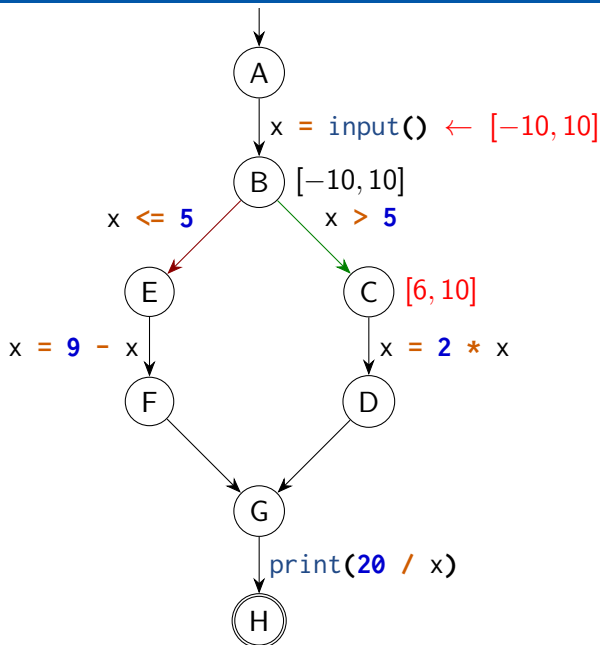
```
1 x = input()
2 if x > 5:
3     x = 2 * x
4 else:
5     x = 9 - x
6 print(20 / x)
```



Mis juhtub sisendiga $[-10, 10]$?

Teine programm sisendiga $[-10, 10]$

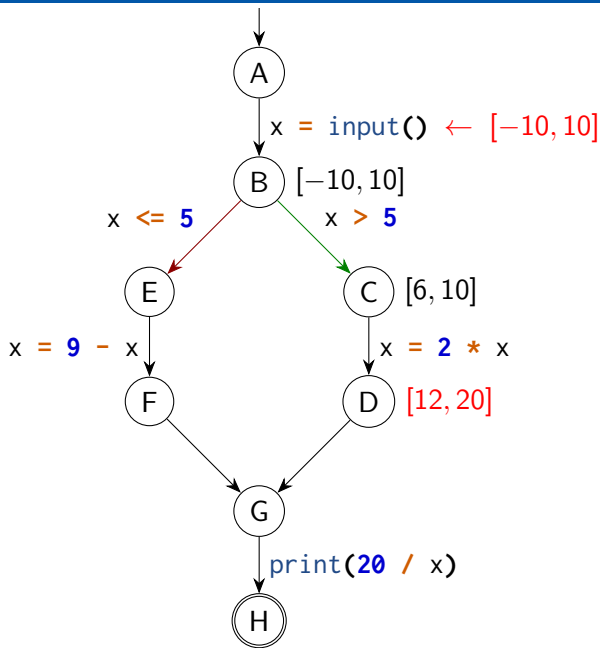
```
1 x = input()
2 if x > 5:
3     x = 2 * x
4 else:
5     x = 9 - x
6 print(20 / x)
```



Mis juhtub sisendiga $[-10, 10]$?

Teine programm sisendiga $[-10, 10]$

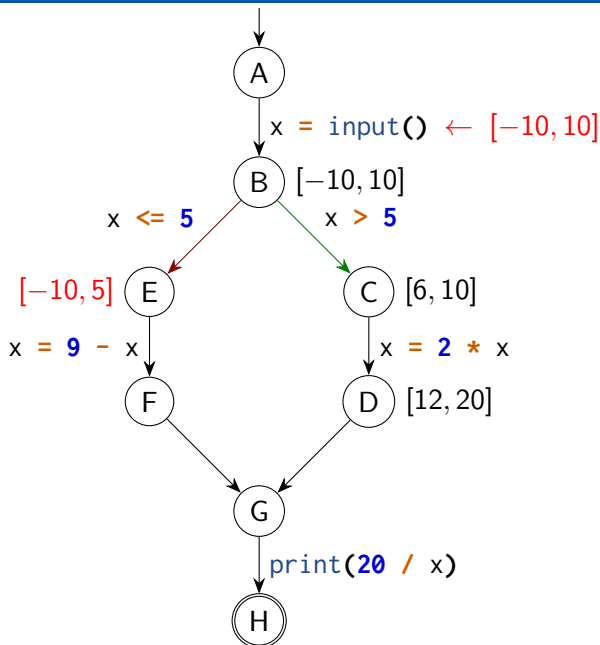
```
1 x = input()
2 if x > 5:
3     x = 2 * x
4 else:
5     x = 9 - x
6 print(20 / x)
```



Mis juhtub sisendiga $[-10, 10]$?

Teine programm sisendiga $[-10, 10]$

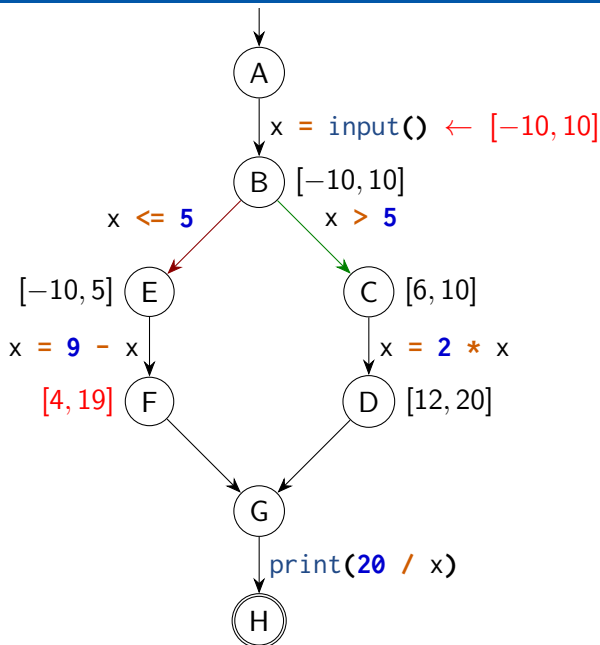
```
1 x = input()
2 if x > 5:
3     x = 2 * x
4 else:
5     x = 9 - x
6 print(20 / x)
```



Mis juhtub sisendiga $[-10, 10]$?

Teine programm sisendiga $[-10, 10]$

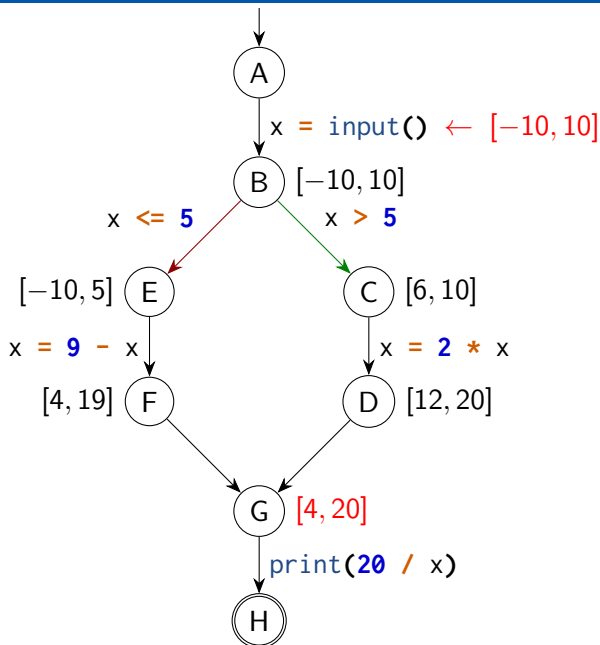
```
1 x = input()
2 if x > 5:
3     x = 2 * x
4 else:
5     x = 9 - x
6 print(20 / x)
```



Mis juhtub sisendiga $[-10, 10]$?

Teine programm sisendiga $[-10, 10]$

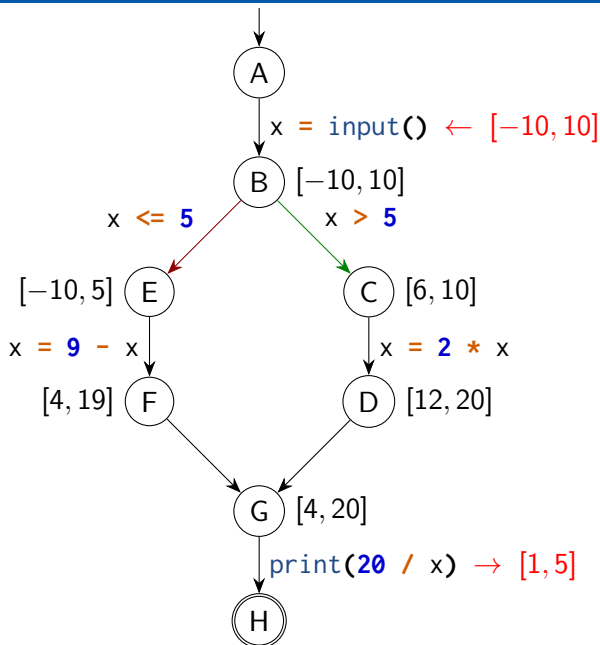
```
1 x = input()
2 if x > 5:
3     x = 2 * x
4 else:
5     x = 9 - x
6 print(20 / x)
```



Mis juhtub sisendiga $[-10, 10]$?

Teine programm sisendiga $[-10, 10]$

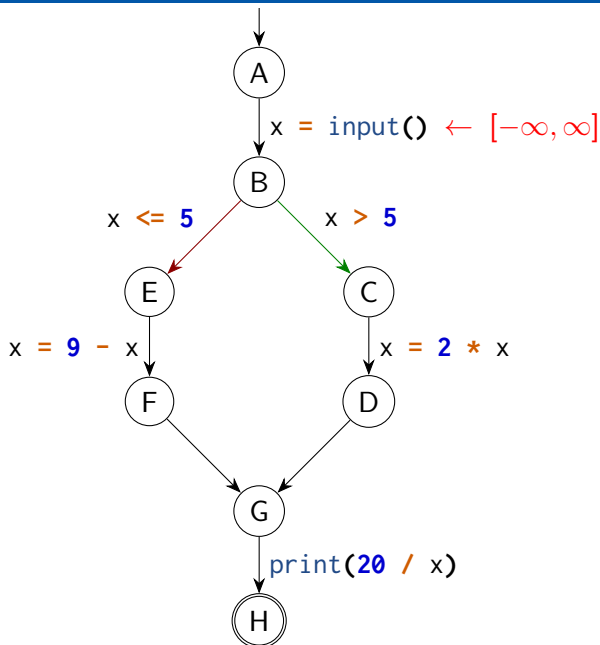
```
1 x = input()
2 if x > 5:
3     x = 2 * x
4 else:
5     x = 9 - x
6 print(20 / x)
```



Mis juhtub sisendiga $[-10, 10]$?

Teine programm sisendiga $[-\infty, \infty]$

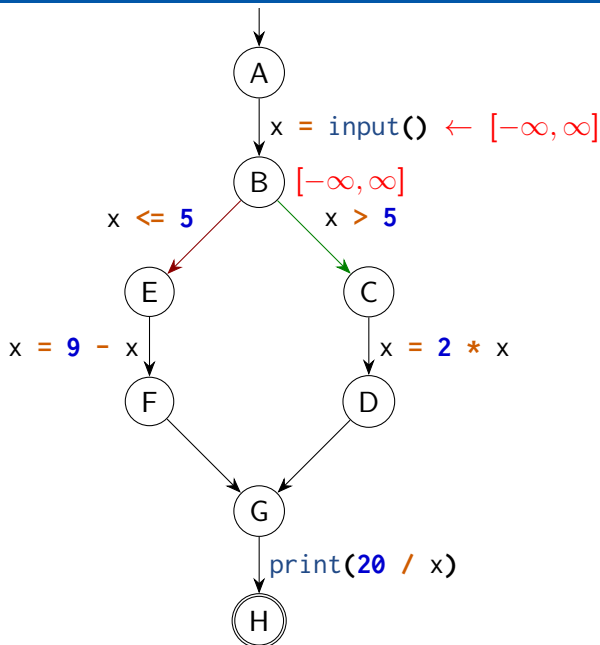
```
1 x = input()
2 if x > 5:
3     x = 2 * x
4 else:
5     x = 9 - x
6 print(20 / x)
```



Mis juhtub sisendiga $[-\infty, \infty]$?

Teine programm sisendiga $[-\infty, \infty]$

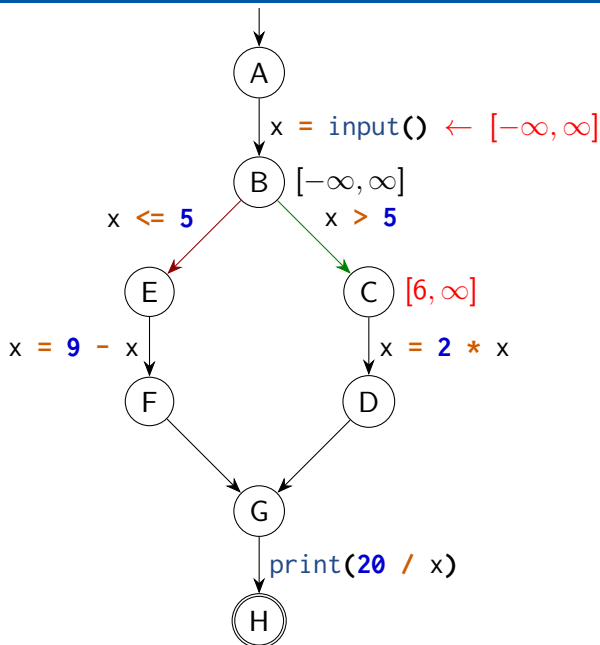
```
1 x = input()
2 if x > 5:
3     x = 2 * x
4 else:
5     x = 9 - x
6 print(20 / x)
```



Mis juhtub sisendiga $[-\infty, \infty]$?

Teine programm sisendiga $[-\infty, \infty]$

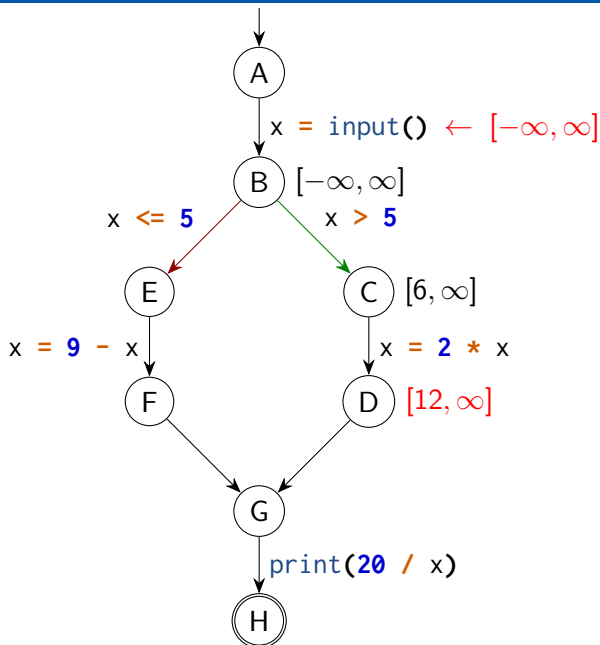
```
1 x = input()
2 if x > 5:
3     x = 2 * x
4 else:
5     x = 9 - x
6 print(20 / x)
```



Mis juhtub sisendiga $[-\infty, \infty]$?

Teine programm sisendiga $[-\infty, \infty]$

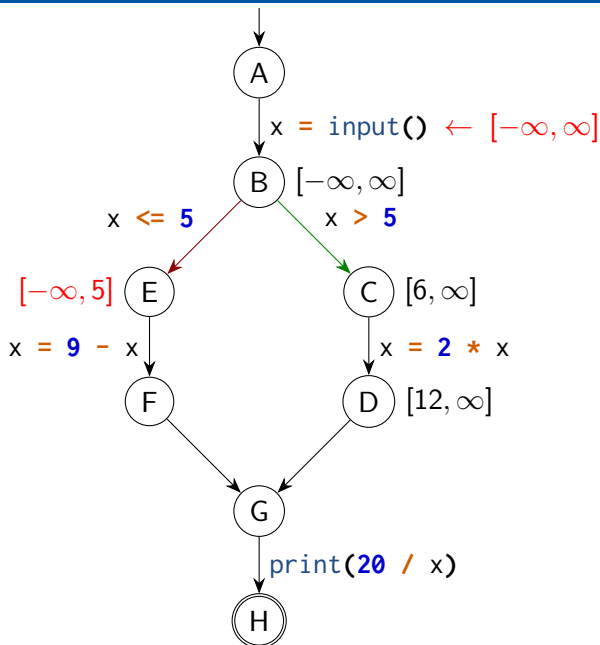
```
1 x = input()
2 if x > 5:
3     x = 2 * x
4 else:
5     x = 9 - x
6 print(20 / x)
```



Mis juhtub sisendiga $[-\infty, \infty]$?

Teine programm sisendiga $[-\infty, \infty]$

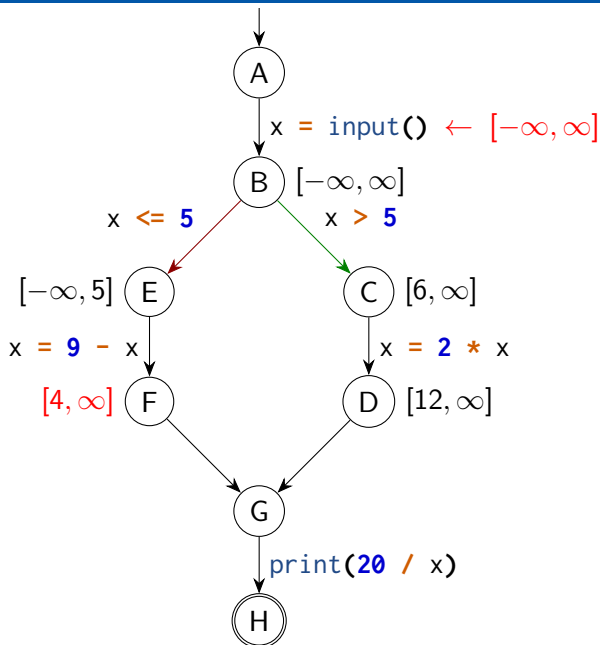
```
1 x = input()
2 if x > 5:
3     x = 2 * x
4 else:
5     x = 9 - x
6 print(20 / x)
```



Mis juhtub sisendiga $[-\infty, \infty]$?

Teine programm sisendiga $[-\infty, \infty]$

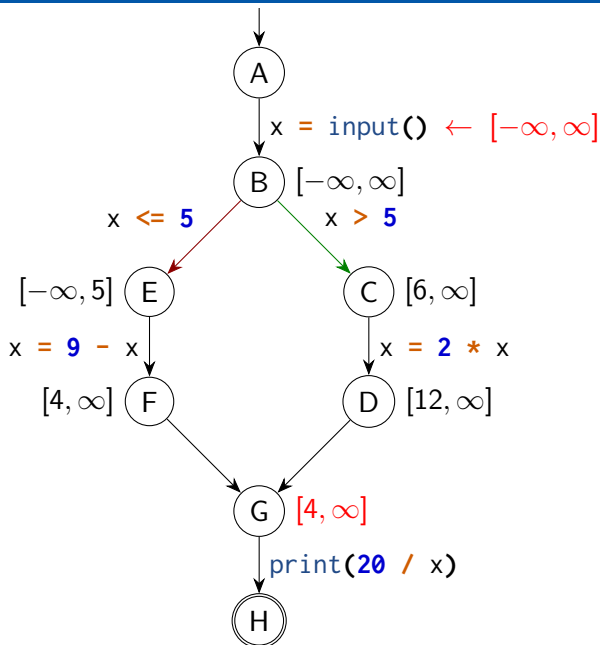
```
1 x = input()
2 if x > 5:
3     x = 2 * x
4 else:
5     x = 9 - x
6 print(20 / x)
```



Mis juhtub sisendiga $[-\infty, \infty]$?

Teine programm sisendiga $[-\infty, \infty]$

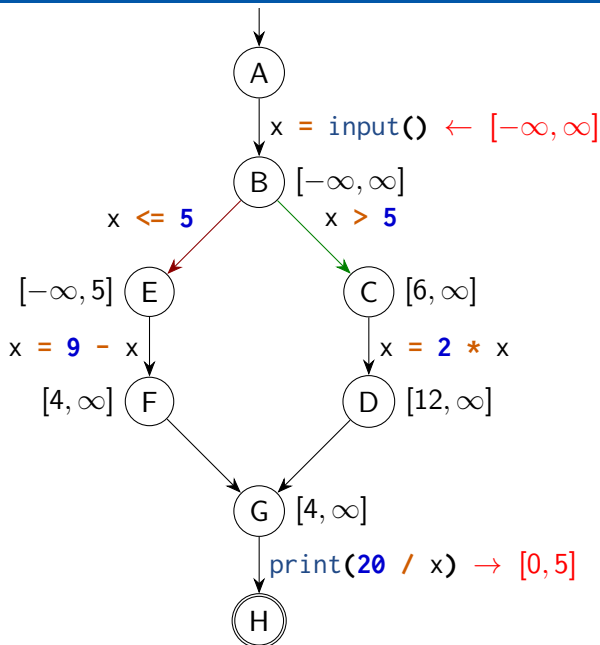
```
1 x = input()
2 if x > 5:
3     x = 2 * x
4 else:
5     x = 9 - x
6 print(20 / x)
```



Mis juhtub sisendiga $[-\infty, \infty]$?

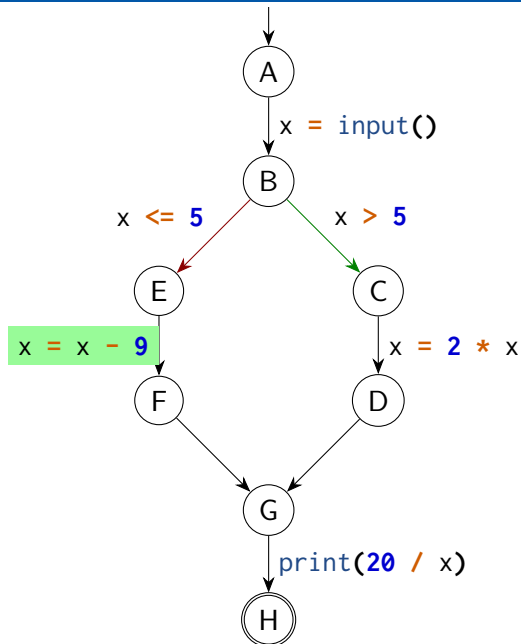
Teine programm sisendiga $[-\infty, \infty]$

```
1 x = input()
2 if x > 5:
3     x = 2 * x
4 else:
5     x = 9 - x
6 print(20 / x)
```



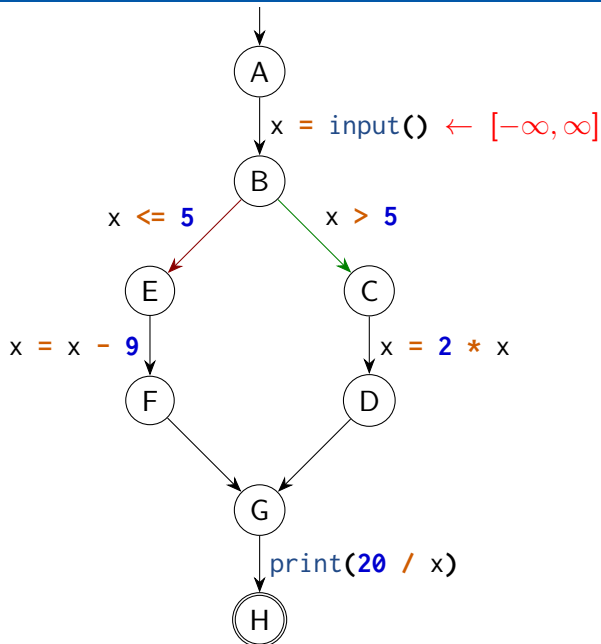
Mis juhtub sisendiga $[-\infty, \infty]$?

```
1 x = input()
2 if x > 5:
3     x = 2 * x
4 else:
5     x = x - 9
6 print(20 / x)
```



Kolmas programm sisendiga $[-\infty, \infty]$

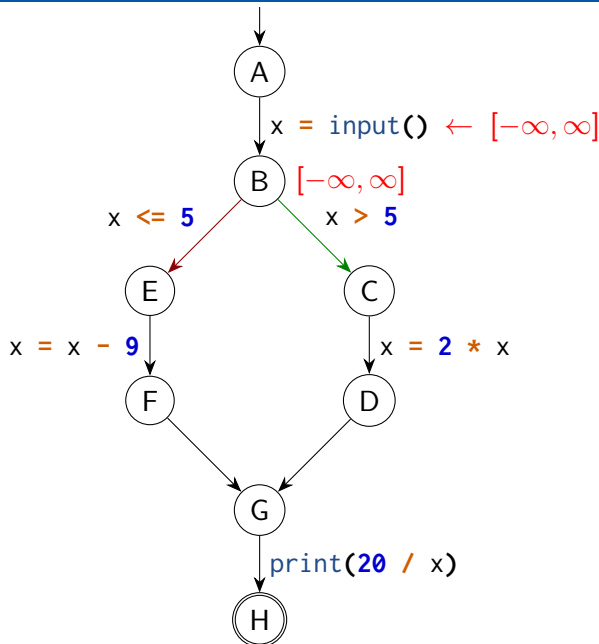
```
1 x = input()
2 if x > 5:
3     x = 2 * x
4 else:
5     x = x - 9
6 print(20 / x)
```



Mis juhtub sisendiga $[-\infty, \infty]$?

Kolmas programm sisendiga $[-\infty, \infty]$

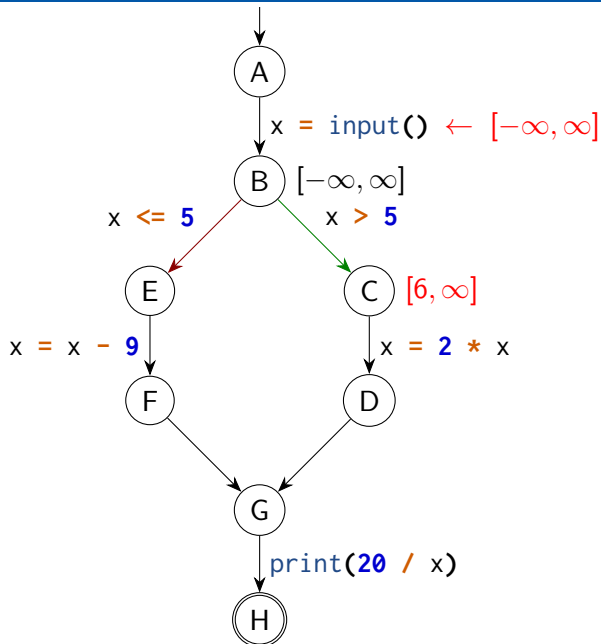
```
1 x = input()
2 if x > 5:
3     x = 2 * x
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6 print(20 / x)
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Mis juhtub sisendiga $[-\infty, \infty]$?

Kolmas programm sisendiga $[-\infty, \infty]$

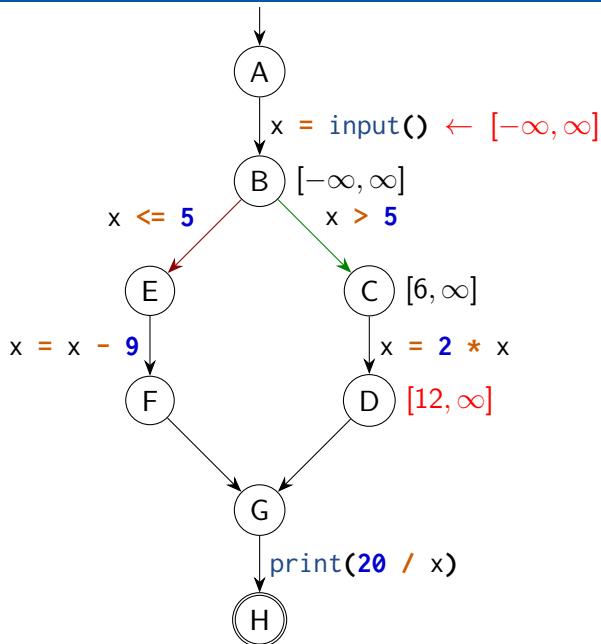
```
1 x = input()
2 if x > 5:
3     x = 2 * x
4 else:
5     x = x - 9
6 print(20 / x)
```



Mis juhtub sisendiga $[-\infty, \infty]$?

Kolmas programm sisendiga $[-\infty, \infty]$

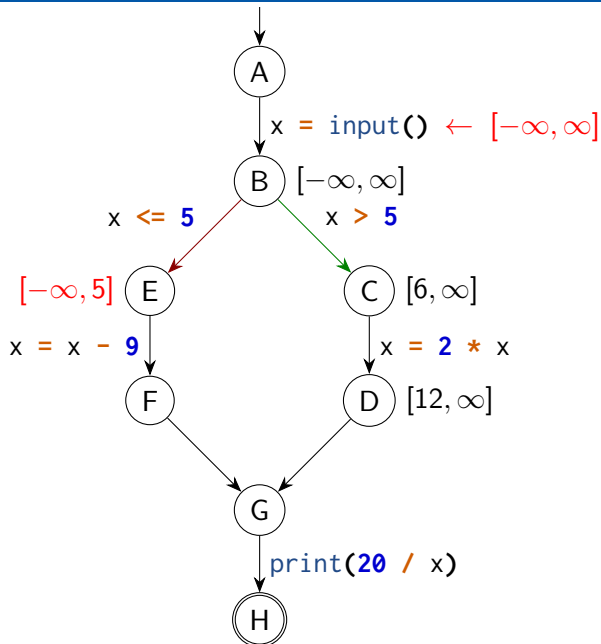
```
1 x = input()
2 if x > 5:
3     x = 2 * x
4 else:
5     x = x - 9
6 print(20 / x)
```



Mis juhtub sisendiga $[-\infty, \infty]$?

Kolmas programm sisendiga $[-\infty, \infty]$

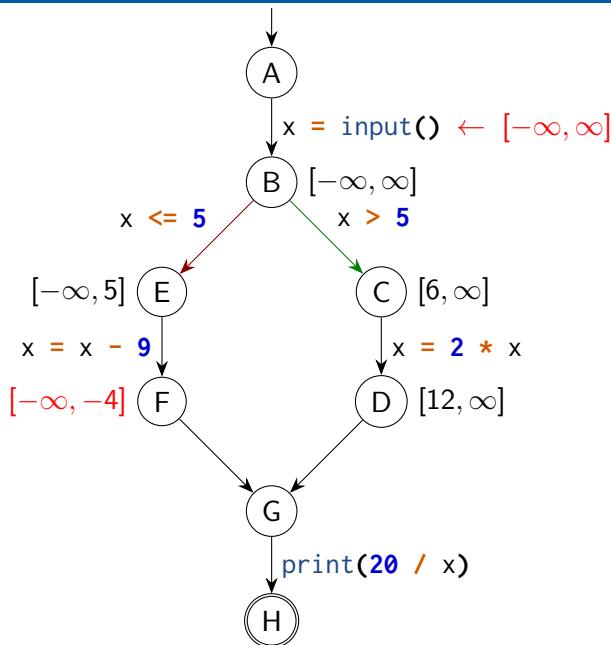
```
1 x = input()
2 if x > 5:
3     x = 2 * x
4 else:
5     x = x - 9
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```



Mis juhtub sisendiga $[-\infty, \infty]$?

Kolmas programm sisendiga $[-\infty, \infty]$

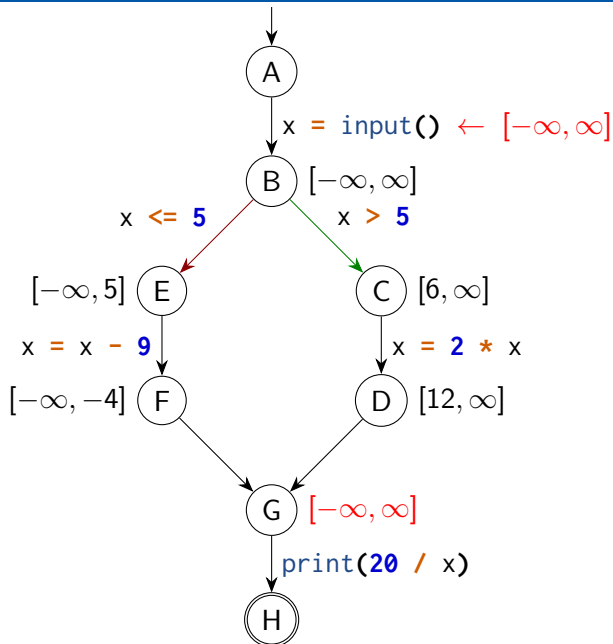
```
1 x = input()
2 if x > 5:
3     x = 2 * x
4 else:
5     x = x - 9
6 print(20 / x)
```



Mis juhtub sisendiga $[-\infty, \infty]$?

Kolmas programm sisendiga $[-\infty, \infty]$

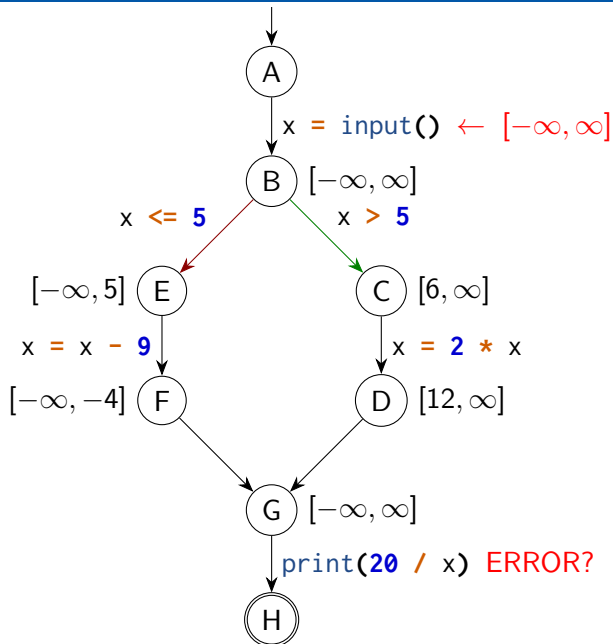
```
1 x = input()
2 if x > 5:
3     x = 2 * x
4 else:
5     x = x - 9
6 print(20 / x)
```



Mis juhtub sisendiga $[-\infty, \infty]$?

Kolmas programm sisendiga $[-\infty, \infty]$

```
1 x = input()
2 if x > 5:
3     x = 2 * x
4 else:
5     x = x - 9
6 print(20 / x)
```



Mis juhtub sisendiga $[-\infty, \infty]$?

Korrektne

Kui päriselt võib tekkida viga, siis abstraktselt tekib viga.

ehk

Kui abstraktselt ei teki viga, siis päriselt ei teki viga.

Tõestab programmi korrektsuse!

Korrektne

Kui päriselt võib tekkida viga, siis abstraktselt tekib viga.

ehk

Kui abstraktselt ei teki viga, siis päriselt ei teki viga.

Tõestab programmi korrektsuse!

Ebatäpne

Kui abstraktselt tekib viga, siis päriselt ei pruugi viga tekkida.

Eksib, aga ainult ühte pidi!