

# *Intro to Theory of Computation*

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CS  
464

## **LECTURE 21**

### **Last time**

- Computation history method
- Recursion theorem
- Review

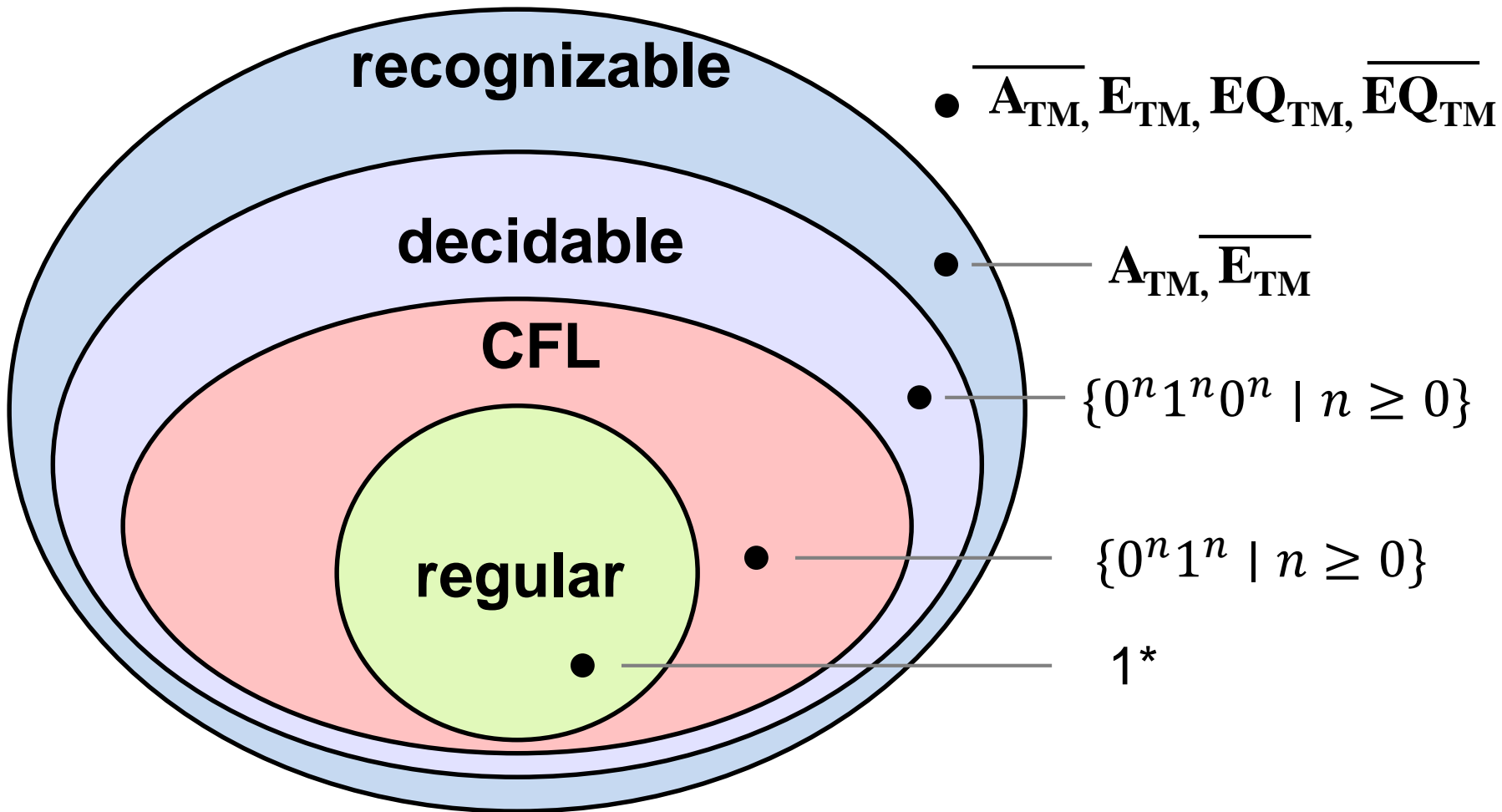
### **Today**

- Review

**Practice exam 2 solutions out**

**Sofya Raskhodnikova**

# Classes of languages



# Problems in language theory

$A_{\text{DFA}}$ decidable	$A_{\text{CFG}}$ decidable	$A_{\text{TM}}$ undecidable
$E_{\text{DFA}}$ decidable	$E_{\text{CFG}}$ decidable	$E_{\text{TM}}$ undecidable
$EQ_{\text{DFA}}$ decidable	$EQ_{\text{CFG}}$ undecidable	$EQ_{\text{TM}}$ undecidable