Addressing Mode

- **Immediate**
  - Operand value is in the instruction
  - Adv: no memory reference
  - Dis: size of the number is restricted

- **Direct**
  - The address field in the instruction contains the actual address of the operand
  - Adv: simple
  - Dis: limited address space

- **Indirect**
  - The address field refers to a word in the memory which stores the operand’s address
  - Adv: large address space
  - Dis: multiple memory references
- **Register Direct**
  
  - Address field refers to a register which stores the operand
  
  - Adv: small address field, no memory reference
  
  - Dis: limited address space

- **Register Indirect**
  
  - Address field refers to a register which stores the address of the operand in the memory
  
  - Adv: large address space
  
  - Dis: extra memory reference