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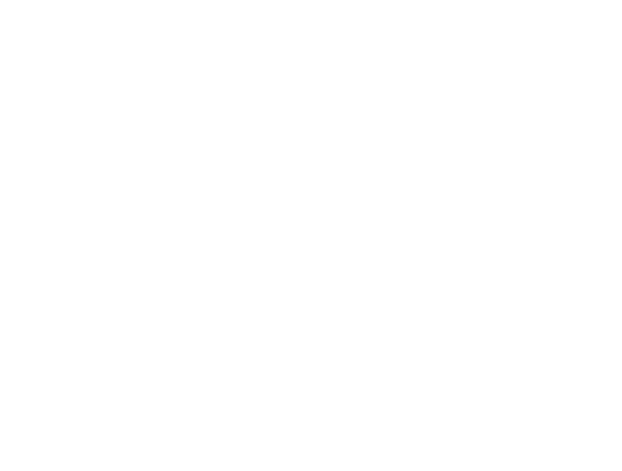
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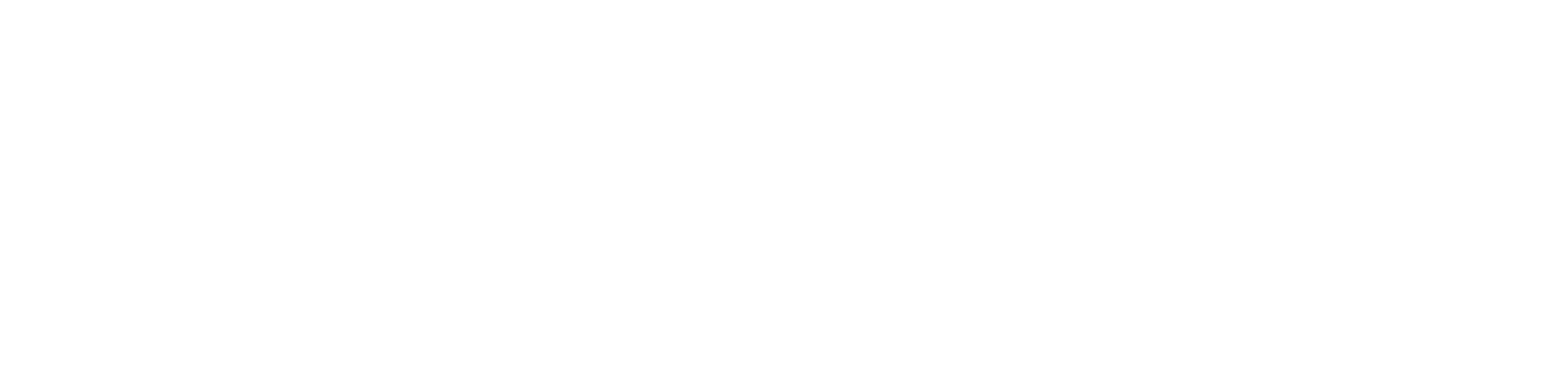
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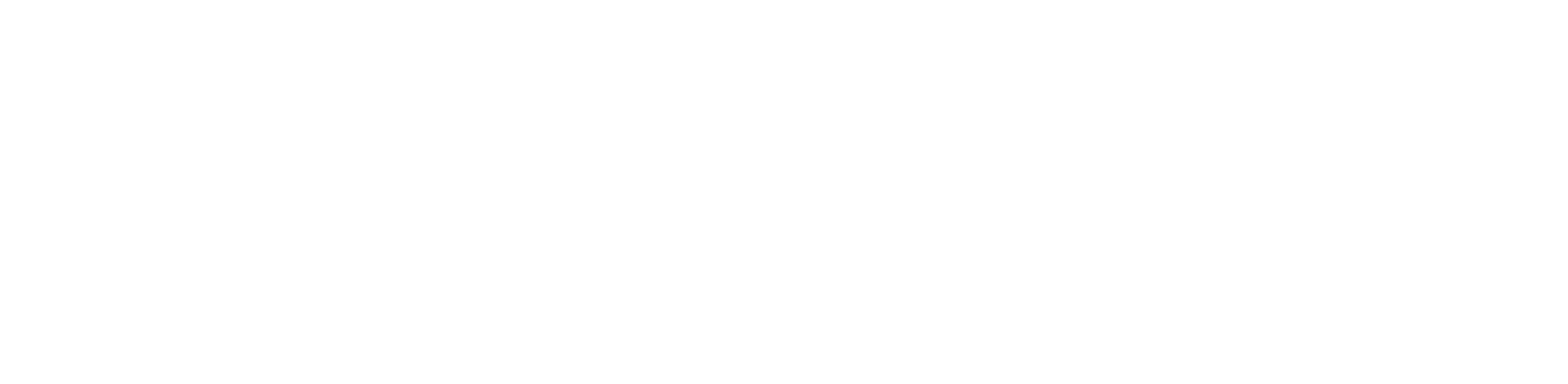
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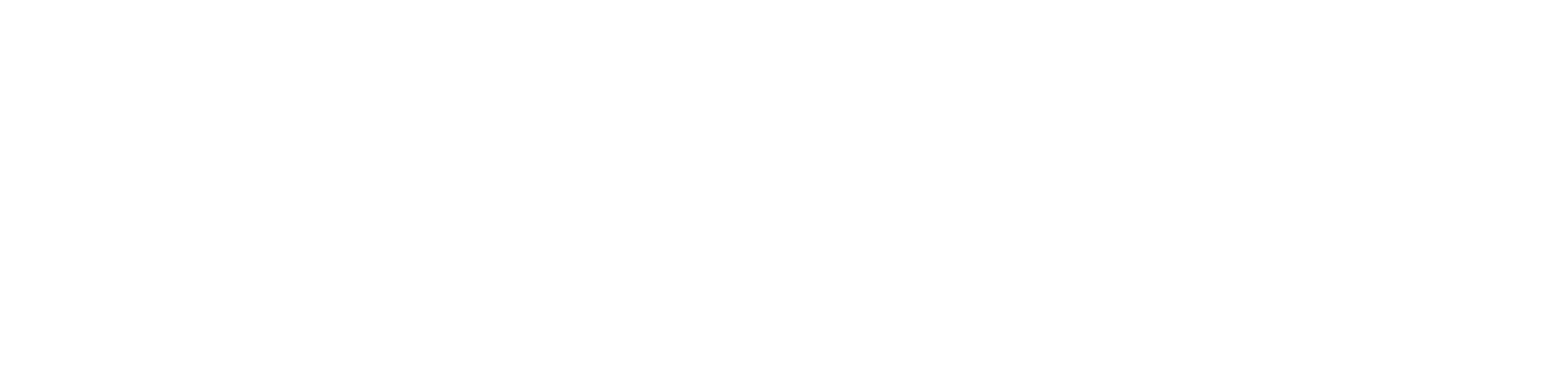
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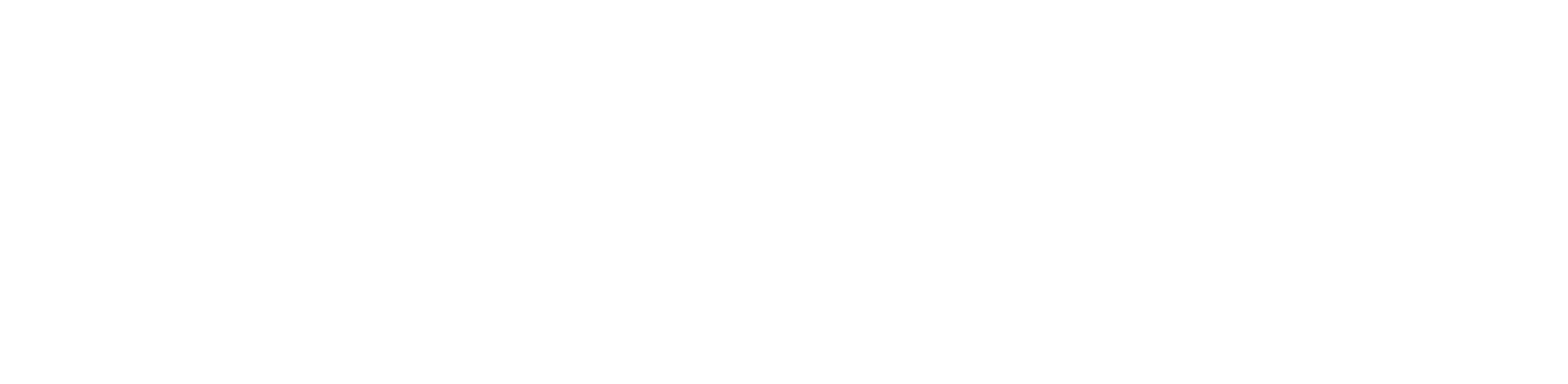
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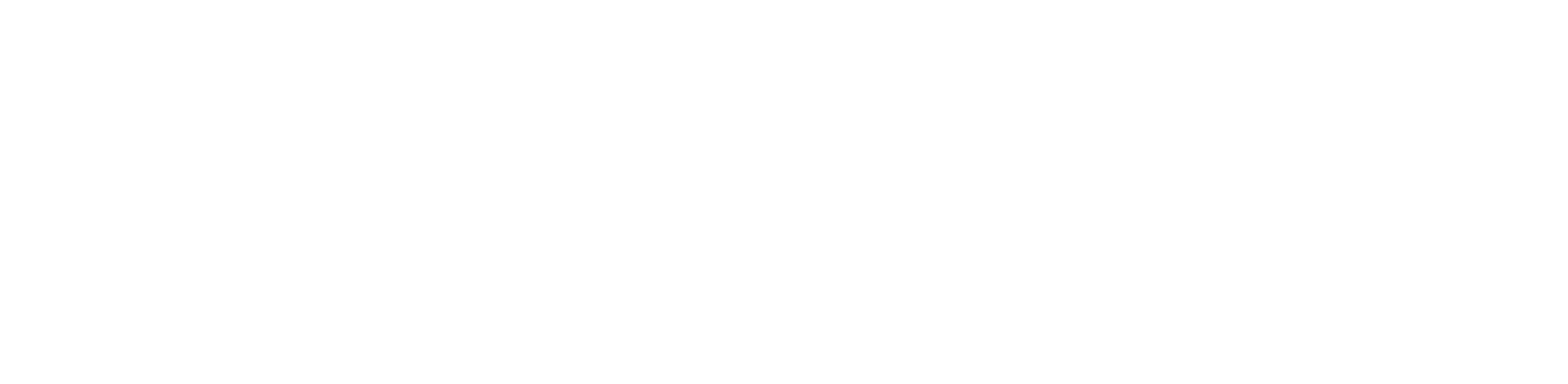
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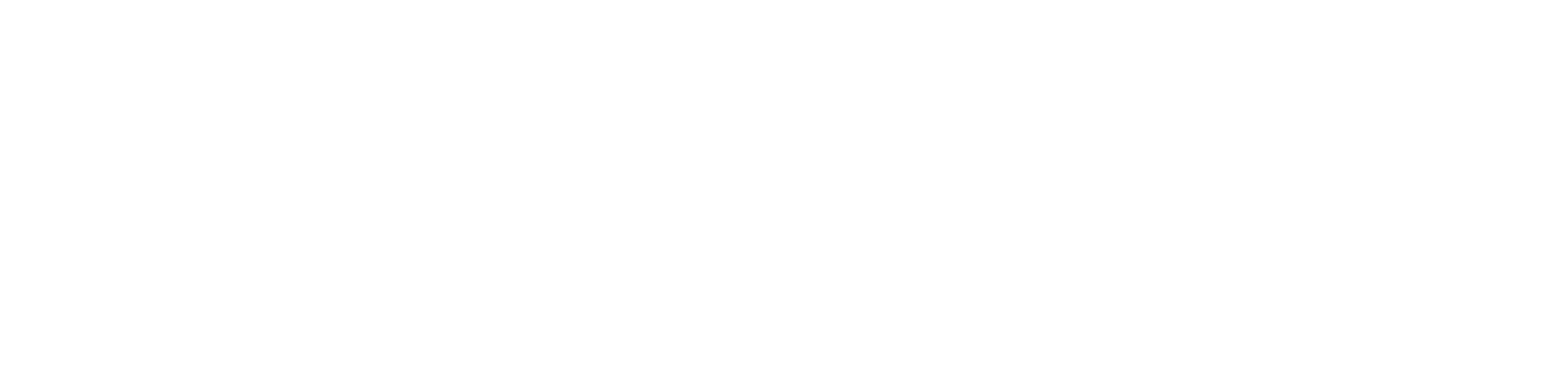
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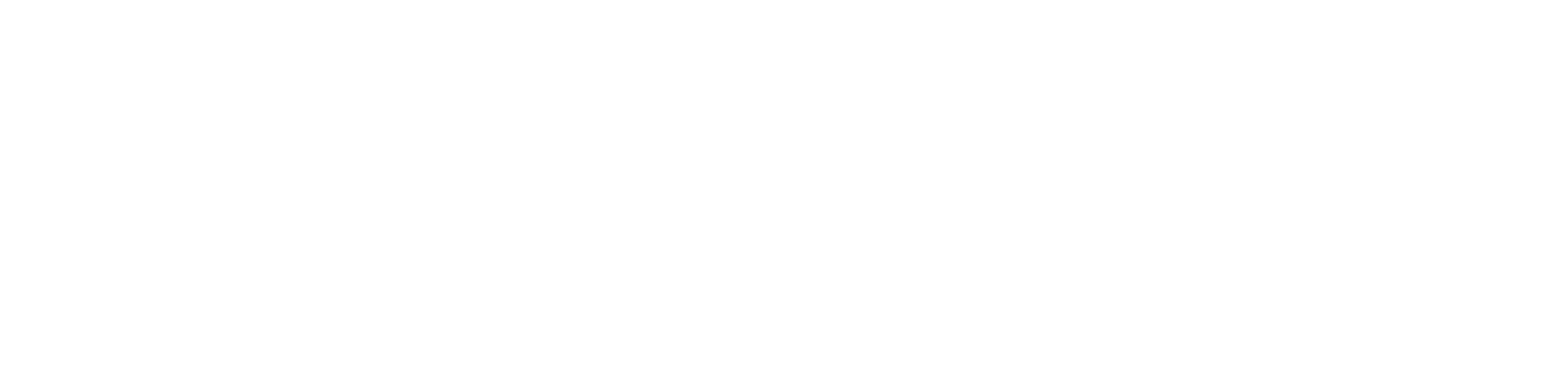
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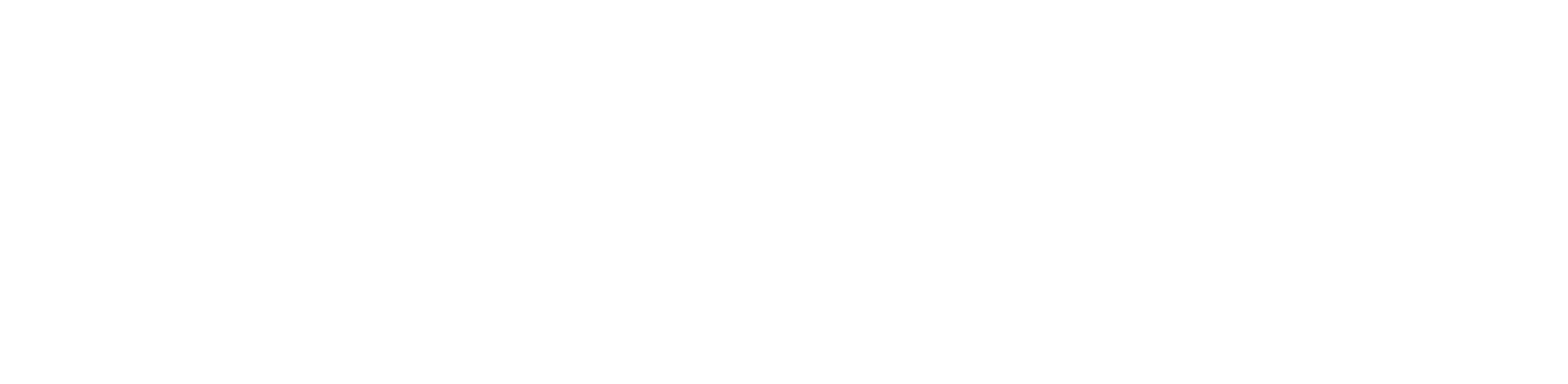
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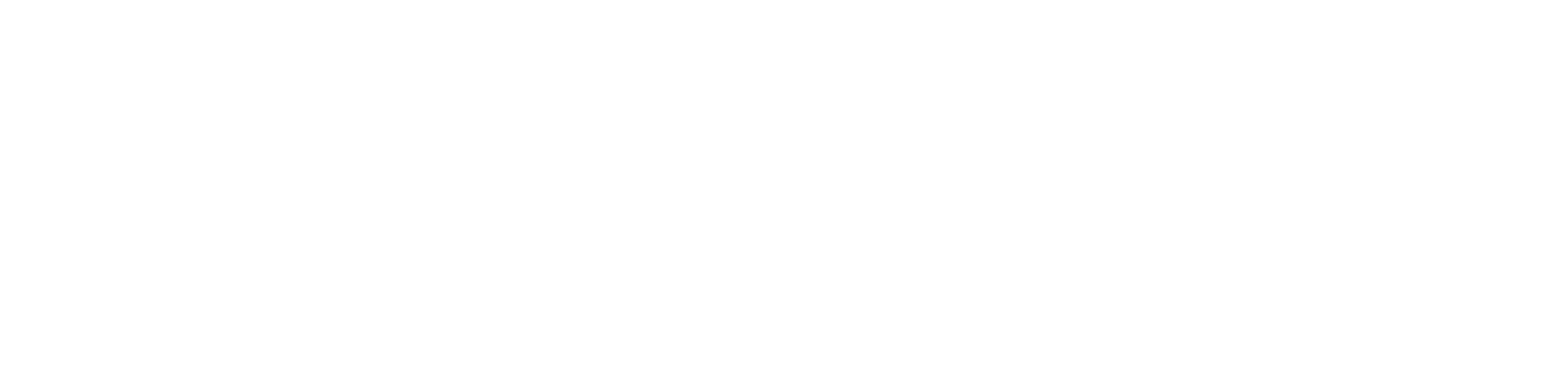
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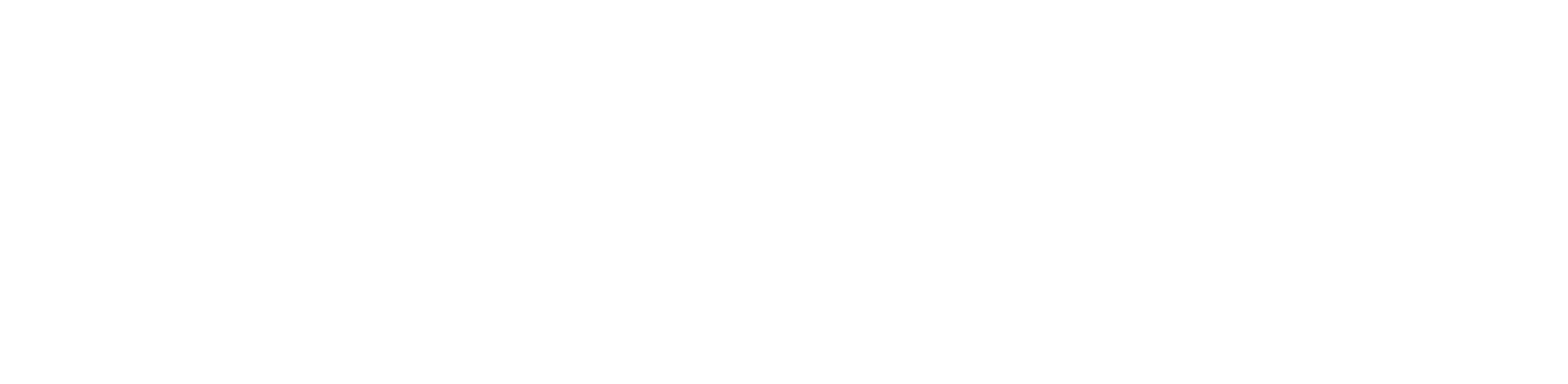
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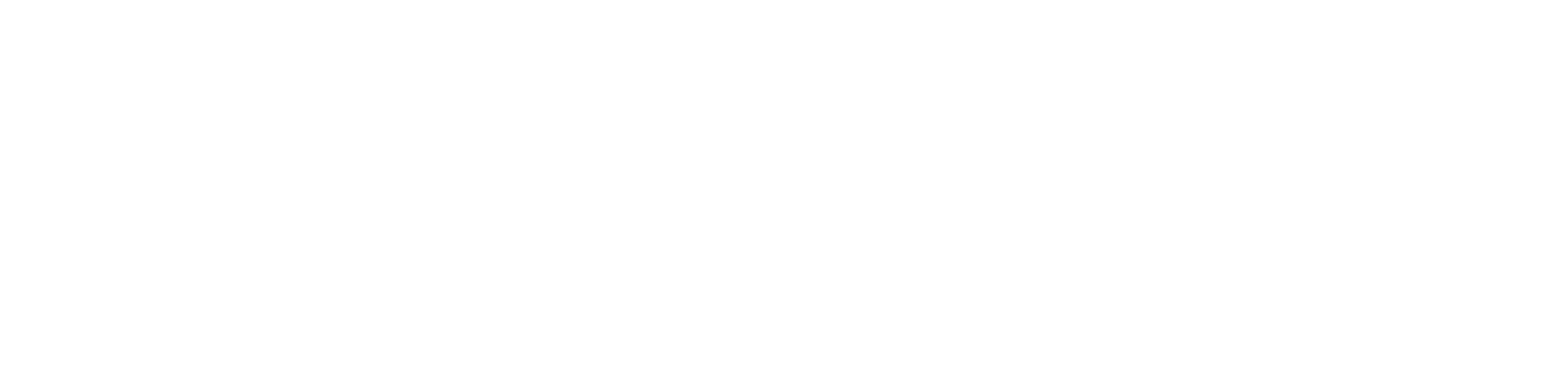
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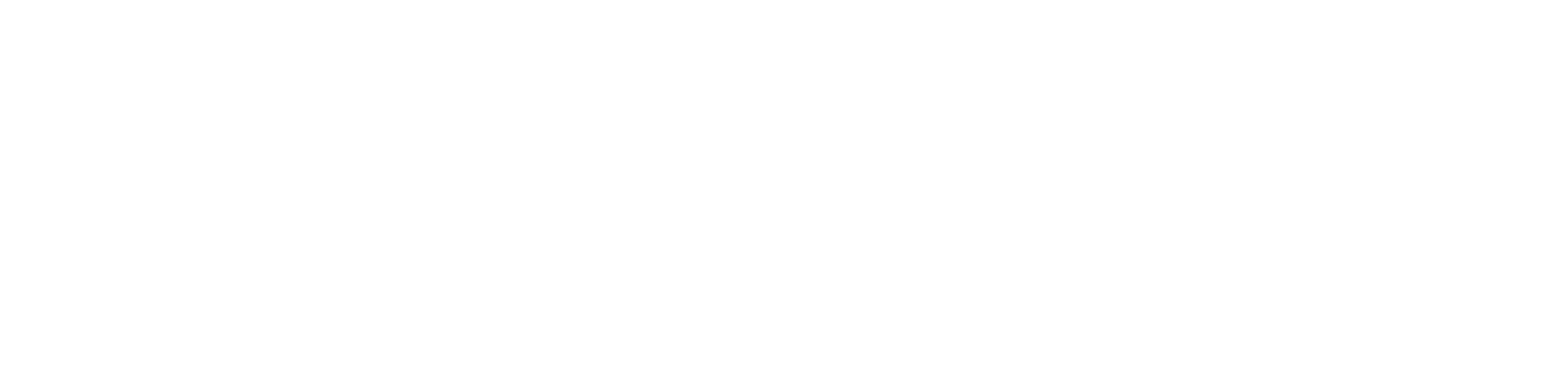
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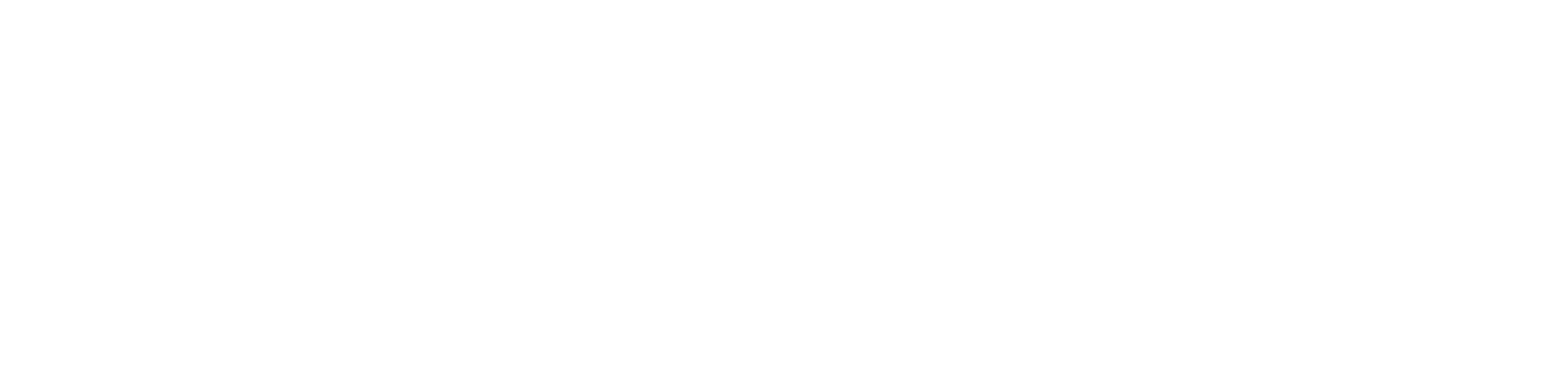
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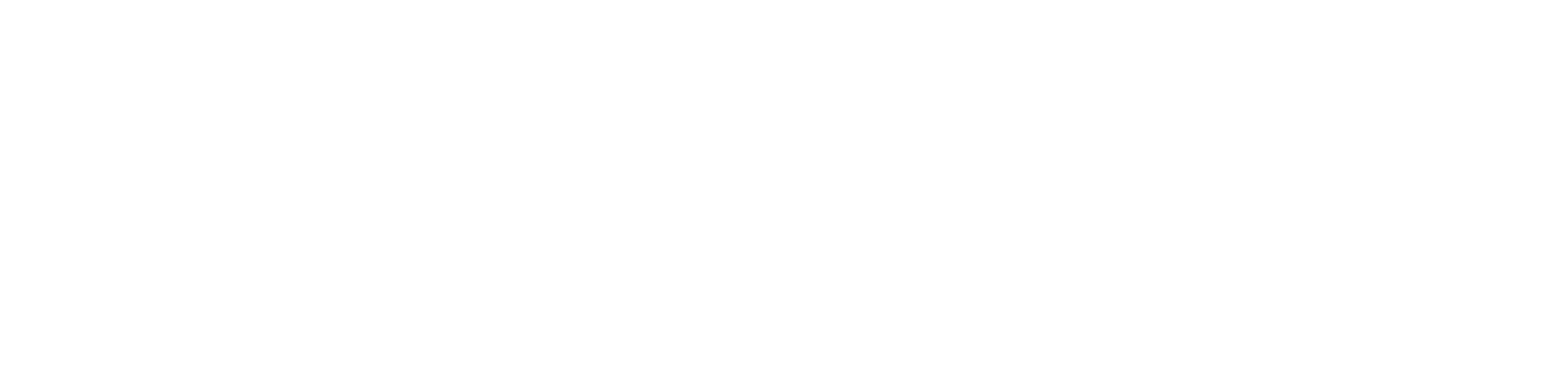
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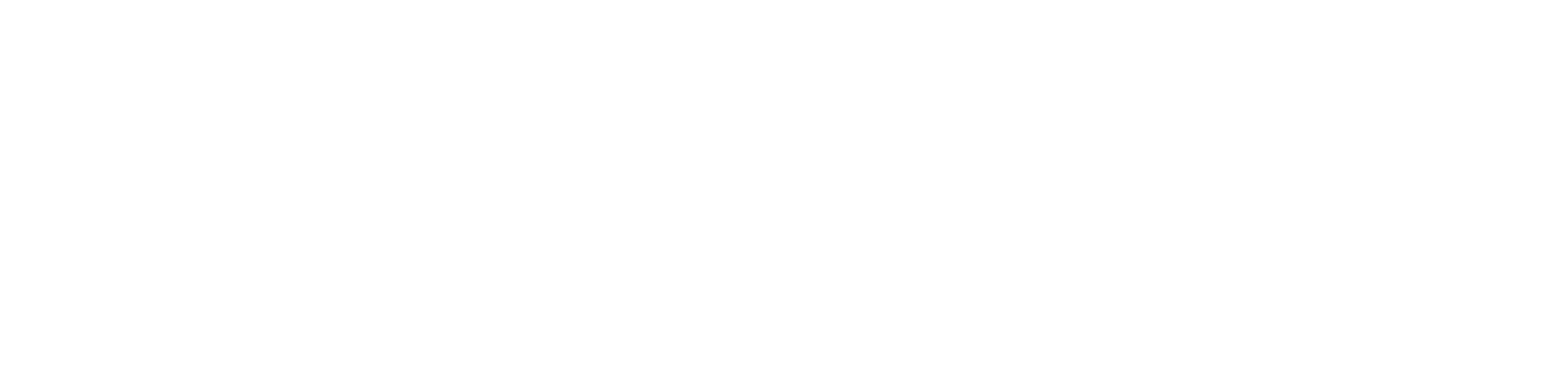
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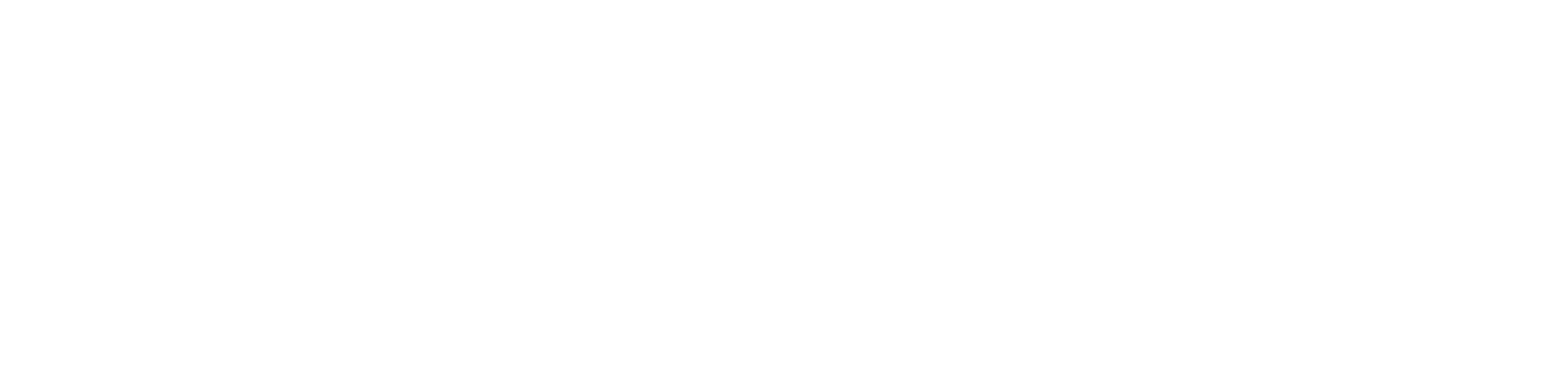
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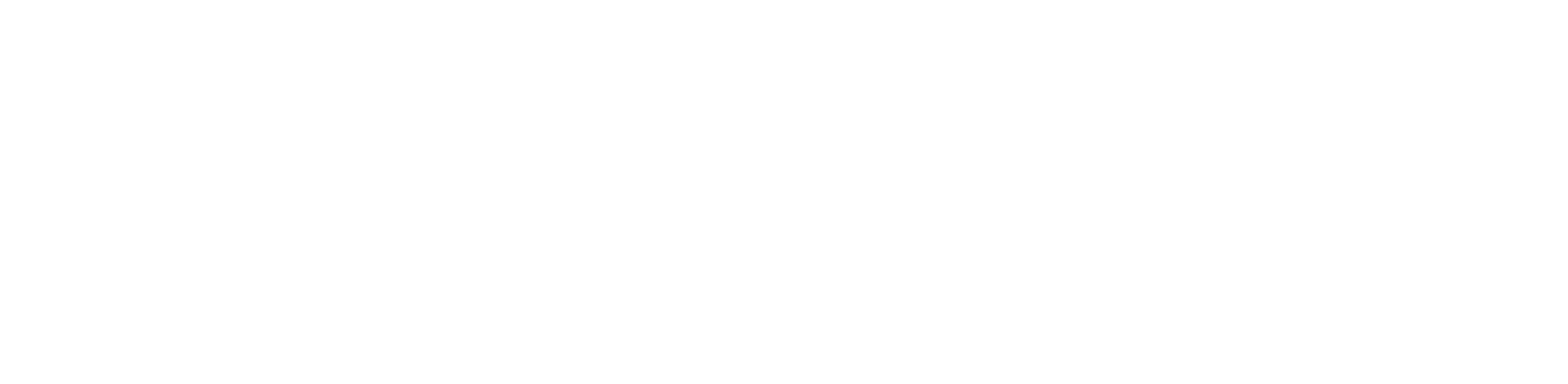
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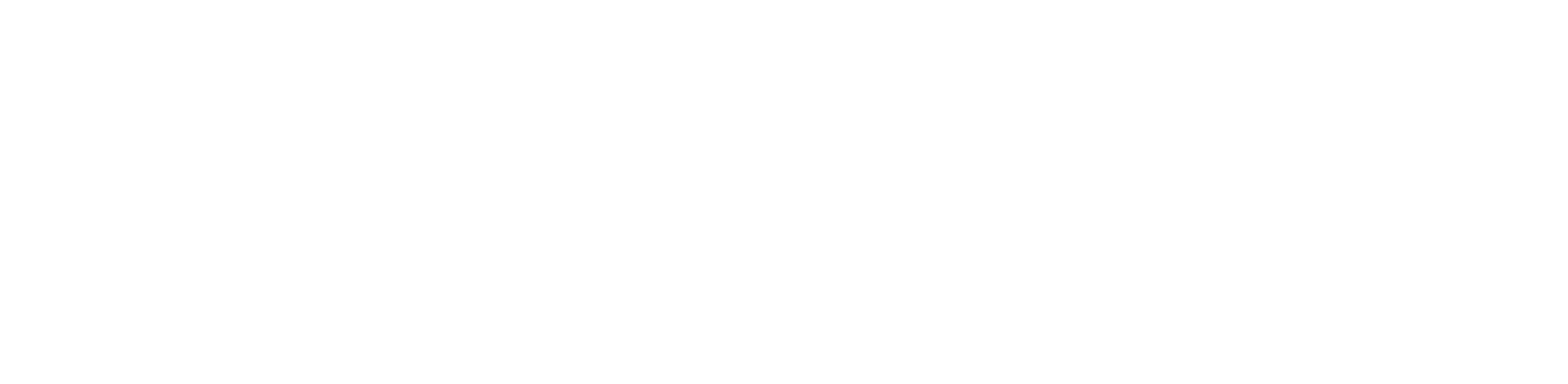
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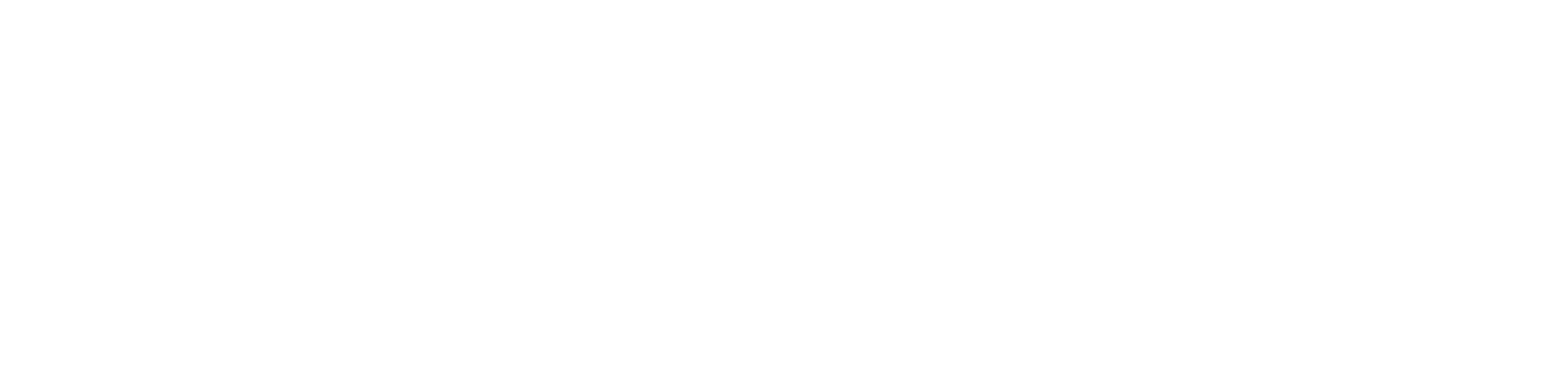
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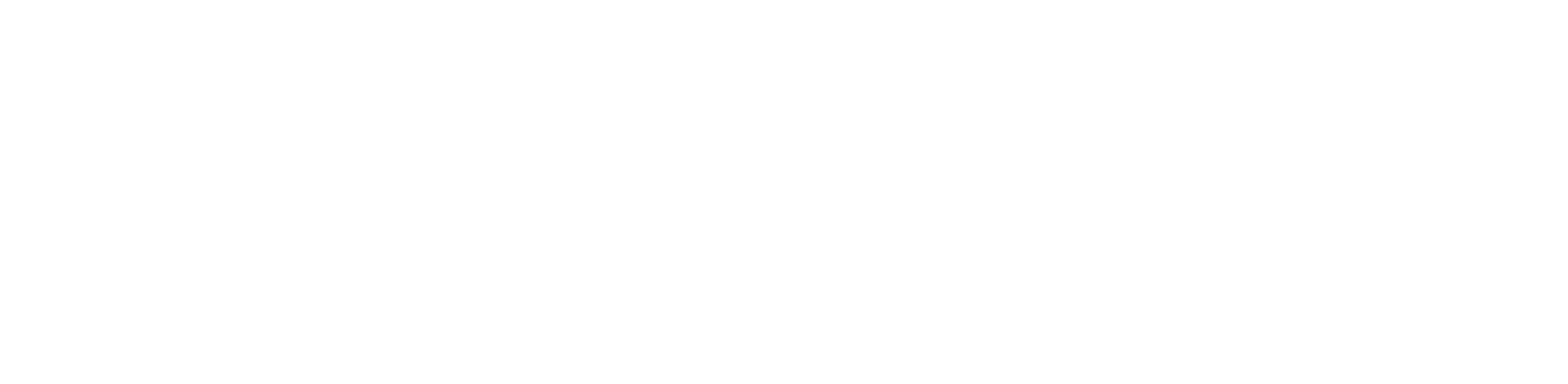
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## CHAPTER 12

### Answers to Fill in the Blanks

1.  $X(\omega) = \sum_{n=-\infty}^{\infty} x(n) e^{-j\omega n}$

3. signal spectrum

5. integration, summation

7.  $x(n) = \frac{1}{2\pi} \int_{-\pi}^{\pi} X(\omega) e^{j\omega n} d\omega$

9.  $X(\omega) = X(z) \Big|_{z=e^{j\omega}}$

11. impulse response

13. frequency response, transfer function

15. magnitude function, phase function

17. real, imaginary

2.  $\sum_{n=-\infty}^{\infty} |x(n)| < \infty$

4.  $2\pi$

6.  $-\infty$  to  $\infty$ ,  $-\pi$  to  $\pi$

8. unit circle

10. continuous and periodic

12. frequency response

14. continuous

16. symmetric, antisymmetric

18.  $x(n) * h(n)$

### Answers to Objective Type Questions

1. (b)

2. (b)

3. (a)

4. (a)

5. (c)

6. (a)

7. (d)

8. (c)

9. (b)

10. (a)

11. (b)

12. (b)

### Answers to Problems

1. (a)  $X(\omega) = 2 - e^{-j\omega} + 3e^{-j2\omega} + 2e^{-j3\omega}$

(c)  $X(\omega) = \frac{1}{1 - 0.2e^{-j\omega}} + \frac{1}{1 - 2e^{-j\omega}}$

2. (a)  $X(\omega) = e^{-j3\omega} \frac{3/4}{(5/4) - \cos \omega}$

(c)  $X(\omega) = -\frac{e^{j\omega}}{(1 - e^{j\omega})^2}$

(e)  $X(\omega) = -\frac{2e^{j\omega}}{(1 - 2e^{j\omega})^2}$

3.  $y(n) = \{1, 4, 4, 10, 7, -5, -1\}$

5.  $X(\omega) = (1 + 4 \cos \omega) e^{-j\omega}$

(b)  $X(\omega) = 16 \frac{e^{j2\omega}}{1 - (1/4)e^{-j\omega}}$

(d)  $X(\omega) = \frac{1 - a \cos \omega_0 e^{-j\omega}}{1 - 2a \cos \omega_0 e^{-j\omega} + a^2 e^{-j2\omega}}$

(b)  $X(\omega) = e^{-j4\omega} \frac{1}{1 - (1/2)e^{-j\omega}}$

(d)  $X(\omega) = \frac{1}{1 - e^{-j(\omega-2)}}$

4.  $x(n) = \underbrace{\{1, 2, 3, 2, 1\}}_{\uparrow}$

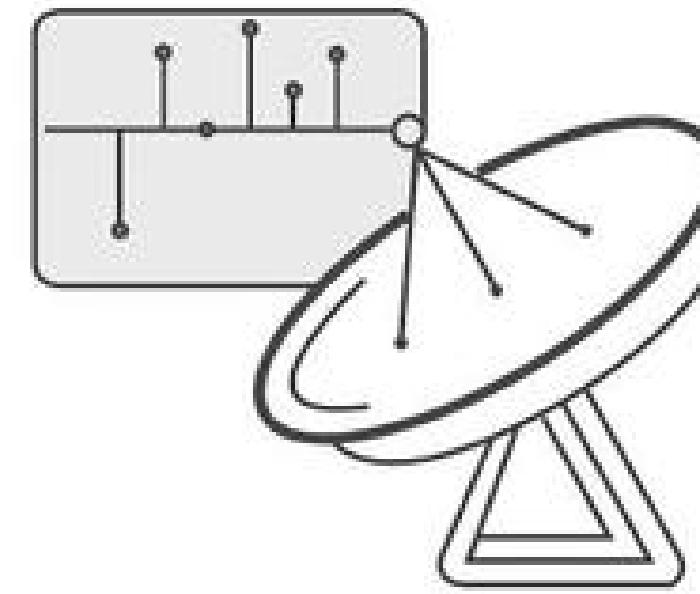
$$6. \quad y(n) = \frac{1}{3} [a^{n+1} u(n+1) + a^n u(n) + a^{n-1} u(n-1)]$$

$$7. \quad H(\omega) = \frac{1 - \cos \omega}{2}$$

$$8. \quad H(\omega) = \frac{1 + 0.81e^{-j\omega} + 0.81e^{-j2\omega}}{1 + 0.45e^{-j2\omega}}, \quad |H(\omega)| = \left[ \frac{2.31 + 2.94 \cos \omega + 1.62 \cos 2\omega}{1.2 + 0.9 \cos 2\omega} \right]^{1/2},$$

$$\angle H(\omega) = \tan^{-1} \left[ \frac{-0.45 \sin \omega - 0.36 \sin 2\omega}{1.36 + 1.17 \cos \omega + 1.26 \cos 2\omega} \right]$$

# Index



- Adder, 903
- Aliasing, 545, 583
- Amplitude spectra, 233
- Analysis equation, 231
- Anti-aliasing filter, 546, 584
- Anticipative system, 116
- Aperture effect, 552, 585
- Autocorrelation, 488, 534
  - of energy signals, 488, 534
  - of power signals, 489, 534
  - theorem, 489
- Average power, 56
- Band pass sampling theorem, 575
- Basic operations on signals, 20, 102
  - amplitude scaling, 27
  - signal addition, 30
  - signal multiplication, 31
  - time reversal, 21
  - time scaling, 27
  - time shifting, 20
- BIBO stability criterion, 139
- BIBO stable, 138
- Cascade form realization, 902, 911
- Circuit analysis, 718
- Classification of signals, 41, 102
  - causal and noncausal, 73, 105
  - continuous-time and discrete-time, 41, 102
  - deterministic and random, 42, 102
  - energy and power, 55, 102
- even and odd, 75, 104
- periodic and nonperiodic, 43, 103
- Classification of systems, 113, 164
  - causal and noncausal, 116, 165
  - continuous-time and discrete-time, 114, 165
  - invertible and noninvertible, 156, 166
  - linear and nonlinear, 118, 165
  - lumped parameter and distributed parameter, 115, 165
  - stable and unstable, 138, 166
  - static and dynamic, 115, 165
  - time invariant and time varying, 125, 166
- Complex spectrum, 231
- Convolution, 457, 520
- Convolution theorems, 463
  - frequency convolution, 463, 533
  - time convolution, 463, 532
- Correlation of functions, 457, 483, 533
- Correlation theorem, 486, 535
- Cross correlation, 485
  - of energy signals, 485, 534
  - of power signals, 486
- Data reconstruction, 552
- Detection
  - by autocorrelation, 517
  - by cross correlation, 517
  - by filtering, 518
- Direct form-I realization, 902, 904
- Direct form-II realization, 902, 907
- Dirichlet conditions, 204, 287
  - strong, 204
  - weak, 204

- 
- Discrete-time signal representation, 1, 99  
     functional, 2  
     graphical, 2  
     sequence, 3  
     tabular, 2  
 Distortion, 418  
 Distortionless transmission, 418  
 DTFT, 922  
  
 Energy density spectrum, 491  
 Equalizer, 585  
 Existence of DTFT, 923  
  
 Filter characteristics, 417  
 Finite duration signals, 683  
 Flat top sampling, 550  
 Forced response, 687, 693, 744  
 Fourier coefficients, 207  
 Fourier series, 203, 204, 286  
     cosine form, 211  
     existence of, 204  
     exponential form, 204, 229, 287  
     harmonic analysis, 203  
     harmonic form, 211  
     polar form, 211  
     trigonometric form, 204, 287  
 Fourier spectrum, 233  
 Fourier transform, 296  
     amplitude spectrum, 300  
     Dirichlet conditions, 300  
     existence of, 300  
     frequency spectrum, 300  
     inverse, 299  
     limitations, 326, 398  
     merits, 326, 399  
     pair, 299  
     of a periodic signal, 325  
     phase spectrum, 300  
 Free response, 744  
 Frequency  
     folding effect, 546  
     response, 372, 948  
     spectra, 233  
  
 Gibbs phenomenon, 243, 289  
 Graphical procedure for convolution, 466  
 Guard band, 545  
  
 Hilbert transform, 380, 400  
 Hilbert transform pair, 380  
  
 Hilbert transformer, 382, 400  
 Homogeneity property, 119, 165  
  
 Ideal filter characteristics, 421  
     all pass, 423, 449  
     band pass, 423  
     band reject, 423  
     high pass, 423  
     low pass, 422  
 IDTFT, 932  
 Impulse response, 411, 448, 855, 858  
 Impulse sampling, 547  
 Incoherent signals, 486  
 Integrator, 903  
 Interpolation, 552, 585  
 Inverse Hilbert transform, 380  
 Inverse Laplace transform  
     bilateral, 676  
     unilateral, 645  
 Inverse Z-transform methods, 814  
     convolution integral, 853  
     long division, 816, 892  
     methods, 815, 892  
     partial fraction expansion, 833  
     residue, 847  
  
 Laplace transform, 591, 733  
     advantages, 594  
     bilateral, 592, 602  
     comparison with Fourier transform, 595  
     existence of, 593  
     limitations, 594  
     relation with Fourier transform, 594  
     ROC of, 592  
     unilateral, 592, 596, 602, 742  
 Left-sided signals, 683  
 Linear phase systems, 419, 450  
 Linear system, 410  
 Low pass sampling theorem, 542, 583  
 LTI system, 410, 412  
 LTV system, 410, 412  
  
 Main lobe, 309, 399  
 Mean square error, 185  
 Memory system, 115  
 Memoryless system, 115  
 Multiplier, 903  
  
 Natural response, 687, 744  
 Natural sampling, 548

Non-anticipative system, 116

Normalized

energy, 55

orthogonal set, 182

power, 55

Nyquist interval, 546, 584

Nyquist rate, 545, 584

Orthogonal

functions, 183, 198

signal space, 182, 199

vector space, 181, 198

vectors, 172, 198

Orthonormal vector space, 182, 198

Oversampling, 545, 584

Paley-Wiener criterion, 424

Parallel form realization, 902, 914

Parseval's energy theorem, 491

Parseval's power theorem, 494

Phase spectra, 233

Power density spectrum, 493

Properties of autocorrelation

of energy signals, 488

of power signals, 490

Properties of convolution, 459

associative, 459

commutative, 459

convolution with an impulse, 459, 532

distributive, 459

shift, 459, 532

width, 459

Properties of cross correlation

of energy signals, 486

of power signals, 487

Properties of DTFT, 934

correlation, 938

differentiation in frequency domain, 936

frequency convolution, 937

frequency shifting, 935

linearity, 934

modulation, 938

Parseval's theorem, 938

periodicity, 935

symmetry, 939

time convolution, 937

time reversal, 936

time shifting, 935

Properties of ESD, 493

Properties of Fourier series, 244

conjugation, 249

convolution theorem, 247

linearity, 244

modulation, 248

Parseval's theorem, 249

time differentiation, 246

time integration, 246

time reversal, 245

time scaling, 246

time shifting, 244

Properties of Fourier transform, 312

autocorrelation, 321

conjugation, 321

convolution, 317

differentiation in frequency domain, 316

differentiation in time domain, 315

duality, 319

frequency shifting, 313

linearity, 312

modulation, 320

multiplication, 318

Parseval's, 322

time integration, 316

time reversal, 314

time scaling, 314

time shifting, 312

Properties of Hilbert transform, 382, 389

Properties of impulse function, 9, 100

Properties of Laplace transform, 616

conjugation, 624

differentiation in s-domain, 620

final value theorem, 626, 742

frequency shift, 622

initial value theorem, 625, 742

linearity, 616

multiplication, 623

Parseval's relation, 625

time convolution, 622

time periodicity, 627

time reversal, 618

time scaling, 617

time shift, 617

transform of derivative, 618

transform of integrals, 620

Properties of LTI systems, 413, 447

associative, 414

causality, 414

commutative, 413

distributive, 413

invertibility, 415

memory, 414

stability, 415



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