

## Btech Laplace Transform Solved Problem Pdf Download

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Btech Laplace Transform Solved Problem Transform Solved Problem. Pauls Online Notes Differential Equations Solving IVP. Partial Fractions And Laplace Transform Problems. 8 Using Inverse Laplace Transforms To Solve Differential. Solving PDEs Using Laplace Transforms Cha Apr 17th, 2024 Laplace Transform: 1. Why We Need Laplace Transform System, The Differential Equations For Ideal Elements Are Summarized In Table 2.2); B. Obtain The Laplace Transformation Of The Differential Equations, Which Is Quite Simple ( Transformation Of Commonly Used Equations Are Summarized In Table 2.3); C. Analyze The System In S Domain; D. Get The Final Time Domai Jan 17th, 2024 LAPLACE TRANSFORM & INVERSE LAPLACE TRANSFORM LAPLACE TRANSFORM 48.1 MTRODUCTION Laplace Transforms Help In Solving The Differential Equations With Boundary Values Without Finding The General Solution And The Values Of The Arbitrary Constants. 48.2 LAPLACE TRANSFORM Definition. Let  $f(t)$  Be Function Defitied For All Positive Values O Jan 16th, 2024.

Definitions Of The Laplace Transform, Laplace Transform ... Using The Laplace Transform, Differential Equations Can Be Solved Algebraically. • 2. We Can Use Pole/zero Diagrams From The Laplace Transform To Determine The Frequency Response Of A System And Whether Or Not The System Is Stable. • 3. We Can Tra Apr 3th, 2024 Laplace Transform Examples Of Laplace Transform Properties Of Laplace Transform 6. Initial Value Theorem Ex. Remark: In This Theorem, It Does Not Matter If Pole Location Is In LHS Or Not. If The Limits Exist. Ex. 15 Properties Of Laplace Transform 7. Convolution IMPORTANT REMARK Convolution 16 Summary & Exercises Laplace Transform (Important Math Tool!) De Feb 15th, 2024 Laplace Transform Solved Problems - Univerzita Karlova Laplace Transform Solved Problems Pavel Pyrih May 24, 2012 ( Public Domain ) Acknowledgement. The Following Problems Were Solved Using My Own Procedure Jan 11th, 2024.

LAPLACE TRANSFORM, FOURIER TRANSFORM AND ... 1.2. Laplace Transform Of Derivatives, ODEs 2 1.3. More Laplace Transforms 3 2. Fourier Analysis 9 2.1. Complex And Real Fourier Series (Morten Will Probably Teach This Part) 9 2.2. Fourier Sine And Cosine Series 13 2.3. Parseval's Identity 14 2.4. Fourier Transform 15 2.5. Fourier Inversion Formula 16 2.6. Jan 8th, 2024 From Fourier Transform To Laplace Transform What About Fourier Transform Of Unit Step Function T 1  $U(t) = \int_{-\infty}^{\infty} u(t) e^{j\omega t} dt = \int_{-\infty}^{\infty} f(\omega) e^{-j\omega t} d\omega$  Does Not Converge  $\int_{-\infty}^{\infty} x(t) e^{j\omega t} dt$  Apr 12th, 2024 Previous Year Btech Solved Exam Papers Download VITEEE Previous Years Solved Papers PDF. For Admissions To Vellore Institute Of Technology (VIT), Students Need To Clear The VITEEE Exam, Which Is One Of The Toughest Exam To Enter Into The One Of The Best Engineering University In India, VITEEE Previous Year Papers Wi Mar 15th, 2024.

Chapter 7. Laplace Transforms. Definition Of The Laplace ... The Important Property Of The Laplace Transform Is Its Linearity. That Is, The Laplace Transform  $L$  Is A Linear Operator. Theorem 1. (linearity Of The Transform) Let  $f_1$  And  $f_2$  Be Functions Whose Laplace Transform Exist For  $S > \alpha$  And  $C_1$  And  $C_2$  Be Constants. Then, For  $S > \alpha$ ,  $L\{c_1 f_1 + c_2 f_2\} = c_1 L\{f_1\} + c_2 L\{f_2\}$  Feb 1th, 2024 The Inverse Laplace Transform  $L^{-1}\{S^2 + 6S + 4\} = L^{-1}\{S^2 + 4\} + 6L^{-1}\{S\} = \sin 2t + 3\cos 2t$ . (4) 3. Example: Suppose You Want To find The Inverse Laplace Transform  $X(t)$  Of  $X(s) = \frac{1}{(s+1)^4} + \frac{s-3}{(s-3)^2 + 6}$ . Just Use The Shift Property (paragraph 11 From The Previous Set Of Notes):  $X(t) = L^{-1}\{\frac{1}{(s+1)^4}\} + L^{-1}\{\frac{s-3}{(s-3)^2 + 6}\}$  Jan 11th, 2024 Laplace Transform - University Of Utah The Laplace Transform Can Be Used To Solve Differential Equations. Be-sides Being A Different And Efficient Alternative To Variation Of Parameters And Undetermined Coefficients, The Laplace Method Is Particularly Advantageous For Input Terms That Are Piecewise-defined, Periodic Or Impulsive. Apr 4th, 2024.

18.04 Practice Problems Laplace Transform, Spring 2018 ... 18.04 Practice Problems Laplace Transform, Spring 2018 Solutions On The Nal Exam You Will Be Given A Copy Of The Laplace Table Posted With These Problems. Problem 1. Do Each Of The Following Directly From The Definition Of Laplace Transform As An Integral. (a) Compute The Laplace Transform Of  $f_1(t) = e^{at}$ . (b) Compute The Laplace Transform Of  $f_2(t) = \dots$  Mar 6th, 2024 LAPLACE TRANSFORM TABLE  $\int_{-\infty}^{\infty} f(t) e^{j\omega t} dt = 0$  Further, If  $G(t)$  Is Defined As The First Cycle Of  $f(t)$ , Followed By Zero, Then  $\int_{-\infty}^{\infty} G(t) e^{j\omega t} dt = \int_{-\infty}^{\infty} f(t) e^{j\omega t} dt = 1 - \dots$  Square Wave:  $f(t) = 1$  for  $0 \leq t < 1$ ,  $f(t) = 0$  for  $1 \leq t < 2$ ,  $f(t) = 1$  for  $2 \leq t < 3$ ,  $f(t) = 0$  for  $3 \leq t < 4$ ,  $f(t) = 1$  for  $4 \leq t < 5$ ,  $f(t) = 0$  for  $5 \leq t < 6$ ,  $f(t) = 1$  for  $6 \leq t < 7$ ,  $f(t) = 0$  for  $7 \leq t < 8$ ,  $f(t) = 1$  for  $8 \leq t < 9$ ,  $f(t) = 0$  for  $9 \leq t < 10$ ,  $f(t) = 1$  for  $10 \leq t < 11$ ,  $f(t) = 0$  for  $11 \leq t < 12$ ,  $f(t) = 1$  for  $12 \leq t < 13$ ,  $f(t) = 0$  for  $13 \leq t < 14$ ,  $f(t) = 1$  for  $14 \leq t < 15$ ,  $f(t) = 0$  for  $15 \leq t < 16$ ,  $f(t) = 1$  for  $16 \leq t < 17$ ,  $f(t) = 0$  for  $17 \leq t < 18$ ,  $f(t) = 1$  for  $18 \leq t < 19$ ,  $f(t) = 0$  for  $19 \leq t < 20$ ,  $f(t) = 1$  for  $20 \leq t < 21$ ,  $f(t) = 0$  for  $21 \leq t < 22$ ,  $f(t) = 1$  for  $22 \leq t < 23$ ,  $f(t) = 0$  for  $23 \leq t < 24$ ,  $f(t) = 1$  for  $24 \leq t < 25$ ,  $f(t) = 0$  for  $25 \leq t < 26$ ,  $f(t) = 1$  for  $26 \leq t < 27$ ,  $f(t) = 0$  for  $27 \leq t < 28$ ,  $f(t) = 1$  for  $28 \leq t < 29$ ,  $f(t) = 0$  for  $29 \leq t < 30$ ,  $f(t) = 1$  for  $30 \leq t < 31$ ,  $f(t) = 0$  for  $31 \leq t < 32$ ,  $f(t) = 1$  for  $32 \leq t < 33$ ,  $f(t) = 0$  for  $33 \leq t < 34$ ,  $f(t) = 1$  for  $34 \leq t < 35$ ,  $f(t) = 0$  for  $35 \leq t < 36$ ,  $f(t) = 1$  for  $36 \leq t < 37$ ,  $f(t) = 0$  for  $37 \leq t < 38$ ,  $f(t) = 1$  for  $38 \leq t < 39$ ,  $f(t) = 0$  for  $39 \leq t < 40$ ,  $f(t) = 1$  for  $40 \leq t < 41$ ,  $f(t) = 0$  for  $41 \leq t < 42$ ,  $f(t) = 1$  for  $42 \leq t < 43$ ,  $f(t) = 0$  for  $43 \leq t < 44$ ,  $f(t) = 1$  for  $44 \leq t < 45$ ,  $f(t) = 0$  for  $45 \leq t < 46$ ,  $f(t) = 1$  for  $46 \leq t < 47$ ,  $f(t) = 0$  for  $47 \leq t < 48$ ,  $f(t) = 1$  for  $48 \leq t < 49$ ,  $f(t) = 0$  for  $49 \leq t < 50$ ,  $f(t) = 1$  for  $50 \leq t < 51$ ,  $f(t) = 0$  for  $51 \leq t < 52$ ,  $f(t) = 1$  for  $52 \leq t < 53$ ,  $f(t) = 0$  for  $53 \leq t < 54$ ,  $f(t) = 1$  for  $54 \leq t < 55$ ,  $f(t) = 0$  for  $55 \leq t < 56$ ,  $f(t) = 1$  for  $56 \leq t < 57$ ,  $f(t) = 0$  for  $57 \leq t < 58$ ,  $f(t) = 1$  for  $58 \leq t < 59$ ,  $f(t) = 0$  for  $59 \leq t < 60$ ,  $f(t) = 1$  for  $60 \leq t < 61$ ,  $f(t) = 0$  for  $61 \leq t < 62$ ,  $f(t) = 1$  for  $62 \leq t < 63$ ,  $f(t) = 0$  for  $63 \leq t < 64$ ,  $f(t) = 1$  for  $64 \leq t < 65$ ,  $f(t) = 0$  for  $65 \leq t < 66$ ,  $f(t) = 1$  for  $66 \leq t < 67$ ,  $f(t) = 0$  for  $67 \leq t < 68$ ,  $f(t) = 1$  for  $68 \leq t < 69$ ,  $f(t) = 0$  for  $69 \leq t < 70$ ,  $f(t) = 1$  for  $70 \leq t < 71$ ,  $f(t) = 0$  for  $71 \leq t < 72$ ,  $f(t) = 1$  for  $72 \leq t < 73$ ,  $f(t) = 0$  for  $73 \leq t < 74$ ,  $f(t) = 1$  for  $74 \leq t < 75$ ,  $f(t) = 0$  for  $75 \leq t < 76$ ,  $f(t) = 1$  for  $76 \leq t < 77$ ,  $f(t) = 0$  for  $77 \leq t < 78$ ,  $f(t) = 1$  for  $78 \leq t < 79$ ,  $f(t) = 0$  for  $79 \leq t < 80$ ,  $f(t) = 1$  for  $80 \leq t < 81$ ,  $f(t) = 0$  for  $81 \leq t < 82$ ,  $f(t) = 1$  for  $82 \leq t < 83$ ,  $f(t) = 0$  for  $83 \leq t < 84$ ,  $f(t) = 1$  for  $84 \leq t < 85$ ,  $f(t) = 0$  for  $85 \leq t < 86$ ,  $f(t) = 1$  for  $86 \leq t < 87$ ,  $f(t) = 0$  for  $87 \leq t < 88$ ,  $f(t) = 1$  for  $88 \leq t < 89$ ,  $f(t) = 0$  for  $89 \leq t < 90$ ,  $f(t) = 1$  for  $90 \leq t < 91$ ,  $f(t) = 0$  for  $91 \leq t < 92$ ,  $f(t) = 1$  for  $92 \leq t < 93$ ,  $f(t) = 0$  for  $93 \leq t < 94$ ,  $f(t) = 1$  for  $94 \leq t < 95$ ,  $f(t) = 0$  for  $95 \leq t < 96$ ,  $f(t) = 1$  for  $96 \leq t < 97$ ,  $f(t) = 0$  for  $97 \leq t < 98$ ,  $f(t) = 1$  for  $98 \leq t < 99$ ,  $f(t) = 0$  for  $99 \leq t < 100$ ,  $f(t) = 1$  for  $100 \leq t < 101$ ,  $f(t) = 0$  for  $101 \leq t < 102$ ,  $f(t) = 1$  for  $102 \leq t < 103$ ,  $f(t) = 0$  for  $103 \leq t < 104$ ,  $f(t) = 1$  for  $104 \leq t < 105$ ,  $f(t) = 0$  for  $105 \leq t < 106$ ,  $f(t) = 1$  for  $106 \leq t < 107$ ,  $f(t) = 0$  for  $107 \leq t < 108$ ,  $f(t) = 1$  for  $108 \leq t < 109$ ,  $f(t) = 0$  for  $109 \leq t < 110$ ,  $f(t) = 1$  for  $110 \leq t < 111$ ,  $f(t) = 0$  for  $111 \leq t < 112$ ,  $f(t) = 1$  for  $112 \leq t < 113$ ,  $f(t) = 0$  for  $113 \leq t < 114$ ,  $f(t) = 1$  for  $114 \leq t < 115$ ,  $f(t) = 0$  for  $115 \leq t < 116$ ,  $f(t) = 1$  for  $116 \leq t < 117$ ,  $f(t) = 0$  for  $117 \leq t < 118$ ,  $f(t) = 1$  for  $118 \leq t < 119$ ,  $f(t) = 0$  for  $119 \leq t < 120$ ,  $f(t) = 1$  for  $120 \leq t < 121$ ,  $f(t) = 0$  for  $121 \leq t < 122$ ,  $f(t) = 1$  for  $122 \leq t < 123$ ,  $f(t) = 0$  for  $123 \leq t < 124$ ,  $f(t) = 1$  for  $124 \leq t < 125$ ,  $f(t) = 0$  for  $125 \leq t < 126$ ,  $f(t) = 1$  for  $126 \leq t < 127$ ,  $f(t) = 0$  for  $127 \leq t < 128$ ,  $f(t) = 1$  for  $128 \leq t < 129$ ,  $f(t) = 0$  for  $129 \leq t < 130$ ,  $f(t) = 1$  for  $130 \leq t < 131$ ,  $f(t) = 0$  for  $131 \leq t < 132$ ,  $f(t) = 1$  for  $132 \leq t < 133$ ,  $f(t) = 0$  for  $133 \leq t < 134$ ,  $f(t) = 1$  for  $134 \leq t < 135$ ,  $f(t) = 0$  for  $135 \leq t < 136$ ,  $f(t) = 1$  for  $136 \leq t < 137$ ,  $f(t) = 0$  for  $137 \leq t < 138$ ,  $f(t) = 1$  for  $138 \leq t < 139$ ,  $f(t) = 0$  for  $139 \leq t < 140$ ,  $f(t) = 1$  for  $140 \leq t < 141$ ,  $f(t) = 0$  for  $141 \leq t < 142$ ,  $f(t) = 1$  for  $142 \leq t < 143$ ,  $f(t) = 0$  for  $143 \leq t < 144$ ,  $f(t) = 1$  for  $144 \leq t < 145$ ,  $f(t) = 0$  for  $145 \leq t < 146$ ,  $f(t) = 1$  for  $146 \leq t < 147$ ,  $f(t) = 0$  for  $147 \leq t < 148$ ,  $f(t) = 1$  for  $148 \leq t < 149$ ,  $f(t) = 0$  for  $149 \leq t < 150$ ,  $f(t) = 1$  for  $150 \leq t < 151$ ,  $f(t) = 0$  for  $151 \leq t < 152$ ,  $f(t) = 1$  for  $152 \leq t < 153$ ,  $f(t) = 0$  for  $153 \leq t < 154$ ,  $f(t) = 1$  for  $154 \leq t < 155$ ,  $f(t) = 0$  for  $155 \leq t < 156$ ,  $f(t) = 1$  for  $156 \leq t < 157$ ,  $f(t) = 0$  for  $157 \leq t < 158$ ,  $f(t) = 1$  for  $158 \leq t < 159$ ,  $f(t) = 0$  for  $159 \leq t < 160$ ,  $f(t) = 1$  for  $160 \leq t < 161$ ,  $f(t) = 0$  for  $161 \leq t < 162$ ,  $f(t) = 1$  for  $162 \leq t < 163$ ,  $f(t) = 0$  for  $163 \leq t < 164$ ,  $f(t) = 1$  for  $164 \leq t < 165$ ,  $f(t) = 0$  for  $165 \leq t < 166$ ,  $f(t) = 1$  for  $166 \leq t < 167$ ,  $f(t) = 0$  for  $167 \leq t < 168$ ,  $f(t) = 1$  for  $168 \leq t < 169$ ,  $f(t) = 0$  for  $169 \leq t < 170$ ,  $f(t) = 1$  for  $170 \leq t < 171$ ,  $f(t) = 0$  for  $171 \leq t < 172$ ,  $f(t) = 1$  for  $172 \leq t < 173$ ,  $f(t) = 0$  for  $173 \leq t < 174$ ,  $f(t) = 1$  for  $174 \leq t < 175$ ,  $f(t) = 0$  for  $175 \leq t < 176$ ,  $f(t) = 1$  for  $176 \leq t < 177$ ,  $f(t) = 0$  for  $177 \leq t < 178$ ,  $f(t) = 1$  for  $178 \leq t < 179$ ,  $f(t) = 0$  for  $179 \leq t < 180$ ,  $f(t) = 1$  for  $180 \leq t < 181$ ,  $f(t) = 0$  for  $181 \leq t < 182$ ,  $f(t) = 1$  for  $182 \leq t < 183$ ,  $f(t) = 0$  for  $183 \leq t < 184$ ,  $f(t) = 1$  for  $184 \leq t < 185$ ,  $f(t) = 0$  for  $185 \leq t < 186$ ,  $f(t) = 1$  for  $186 \leq t < 187$ ,  $f(t) = 0$  for  $187 \leq t < 188$ ,  $f(t) = 1$  for  $188 \leq t < 189$ ,  $f(t) = 0$  for  $189 \leq t < 190$ ,  $f(t) = 1$  for  $190 \leq t < 191$ ,  $f(t) = 0$  for  $191 \leq t < 192$ ,  $f(t) = 1$  for  $192 \leq t < 193$ ,  $f(t) = 0$  for  $193 \leq t < 194$ ,  $f(t) = 1$  for  $194 \leq t < 195$ ,  $f(t) = 0$  for  $195 \leq t < 196$ ,  $f(t) = 1$  for  $196 \leq t < 197$ ,  $f(t) = 0$  for  $197 \leq t < 198$ ,  $f(t) = 1$  for  $198 \leq t < 199$ ,  $f(t) = 0$  for  $199 \leq t < 200$ ,  $f(t) = 1$  for  $200 \leq t < 201$ ,  $f(t) = 0$  for  $201 \leq t < 202$ ,  $f(t) = 1$  for  $202 \leq t < 203$ ,  $f(t) = 0$  for  $203 \leq t < 204$ ,  $f(t) = 1$  for  $204 \leq t < 205$ ,  $f(t) = 0$  for  $205 \leq t < 206$ ,  $f(t) = 1$  for  $206 \leq t < 207$ ,  $f(t) = 0$  for  $207 \leq t < 208$ ,  $f(t) = 1$  for  $208 \leq t < 209$ ,  $f(t) = 0$  for  $209 \leq t < 210$ ,  $f(t) = 1$  for  $210 \leq t < 211$ ,  $f(t) = 0$  for  $211 \leq t < 212$ ,  $f(t) = 1$  for  $212 \leq t < 213$ ,  $f(t) = 0$  for  $213 \leq t < 214$ ,  $f(t) = 1$  for  $214 \leq t < 215$ ,  $f(t) = 0$  for  $215 \leq t < 216$ ,  $f(t) = 1$  for  $216 \leq t < 217$ ,  $f(t) = 0$  for  $217 \leq t < 218$ ,  $f(t) = 1$  for  $218 \leq t < 219$ ,  $f(t) = 0$  for  $219 \leq t < 220$ ,  $f(t) = 1$  for  $220 \leq t < 221$ ,  $f(t) = 0$  for  $221 \leq t < 222$ ,  $f(t) = 1$  for  $222 \leq t < 223$ ,  $f(t) = 0$  for  $223 \leq t < 224$ ,  $f(t) = 1$  for  $224 \leq t < 225$ ,  $f(t) = 0$  for  $225 \leq t < 226$ ,  $f(t) = 1$  for  $226 \leq t < 227$ ,  $f(t) = 0$  for  $227 \leq t < 228$ ,  $f(t) = 1$  for  $228 \leq t < 229$ ,  $f(t) = 0$  for  $229 \leq t < 230$ ,  $f(t) = 1$  for  $230 \leq t < 231$ ,  $f(t) = 0$  for  $231 \leq t < 232$ ,  $f(t) = 1$  for  $232 \leq t < 233$ ,  $f(t) = 0$  for  $233 \leq t < 234$ ,  $f(t) = 1$  for  $234 \leq t < 235$ ,  $f(t) = 0$  for  $235 \leq t < 236$ ,  $f(t) = 1$  for  $236 \leq t < 237$ ,  $f(t) = 0$  for  $237 \leq t < 238$ ,  $f(t) = 1$  for  $238 \leq t < 239$ ,  $f(t) = 0$  for  $239 \leq t < 240$ ,  $f(t) = 1$  for  $240 \leq t < 241$ ,  $f(t) = 0$  for  $241 \leq t < 242$ ,  $f(t) = 1$  for  $242 \leq t < 243$ ,  $f(t) = 0$  for  $243 \leq t < 244$ ,  $f(t) = 1$  for  $244 \leq t < 245$ ,  $f(t) = 0$  for  $245 \leq t < 246$ ,  $f(t) = 1$  for  $246 \leq t < 247$ ,  $f(t) = 0$  for  $247 \leq t < 248$ ,  $f(t) = 1$  for  $248 \leq t < 249$ ,  $f(t) = 0$  for  $249 \leq t < 250$ ,  $f(t) = 1$  for  $250 \leq t < 251$ ,  $f(t) = 0$  for  $251 \leq t < 252$ ,  $f(t) = 1$  for  $252 \leq t < 253$ ,  $f(t) = 0$  for  $253 \leq t < 254$ ,  $f(t) = 1$  for  $254 \leq t < 255$ ,  $f(t) = 0$  for  $255 \leq t < 256$ ,  $f(t) = 1$  for  $256 \leq t < 257$ ,  $f(t) = 0$  for  $257 \leq t < 258$ ,  $f(t) = 1$  for  $258 \leq t < 259$ ,  $f(t) = 0$  for  $259 \leq t < 260$ ,  $f(t) = 1$  for  $260 \leq t < 261$ ,  $f(t) = 0$  for  $261 \leq t < 262$ ,  $f(t) = 1$  for  $262 \leq t < 263$ ,  $f(t) = 0$  for  $263 \leq t < 264$ ,  $f(t) = 1$  for  $264 \leq t < 265$ ,  $f(t) = 0$  for  $265 \leq t < 266$ ,  $f(t) = 1$  for  $266 \leq t < 267$ ,  $f(t) = 0$  for  $267 \leq t < 268$ ,  $f(t) = 1$  for  $268 \leq t < 269$ ,  $f(t) = 0$  for  $269 \leq t < 270$ ,  $f(t) = 1$  for  $270 \leq t < 271$ ,  $f(t) = 0$  for  $271 \leq t < 272$ ,  $f(t) = 1$  for  $272 \leq t < 273$ ,  $f(t) = 0$  for  $273 \leq t < 274$ ,  $f(t) = 1$  for  $274 \leq t < 275$ ,  $f(t) = 0$  for  $275 \leq t < 276$ ,  $f(t) = 1$  for  $276 \leq t < 277$ ,  $f(t) = 0$  for  $277 \leq t < 278$ ,  $f(t) = 1$  for  $278 \leq t < 279$ ,  $f(t) = 0$  for  $279 \leq t < 280$ ,  $f(t) = 1$  for  $280 \leq t < 281$ ,  $f(t) = 0$  for  $281 \leq t < 282$ ,  $f(t) = 1$  for  $282 \leq t < 283$ ,  $f(t) = 0$  for  $283 \leq t < 284$ ,  $f(t) = 1$  for  $284 \leq t < 285$ ,  $f(t) = 0$  for  $285 \leq t < 286$ ,  $f(t) = 1$  for  $286 \leq t < 287$ ,  $f(t) = 0$  for  $287 \leq t < 288$ ,  $f(t) = 1$  for  $288 \leq t < 289$ ,  $f(t) = 0$  for  $289 \leq t < 290$ ,  $f(t) = 1$  for  $290 \leq t < 291$ ,  $f(t) = 0$  for  $291 \leq t < 292$ ,  $f(t) = 1$  for  $292 \leq t < 293$ ,  $f(t) = 0$  for  $293 \leq t < 294$ ,  $f(t) = 1$  for  $294 \leq t < 295$ ,  $f(t) = 0$  for  $295 \leq t < 296$ ,  $f(t) = 1$  for  $296 \leq t < 297$ ,  $f(t) = 0$  for  $297 \leq t < 298$ ,  $f(t) = 1$  for  $298 \leq t < 299$ ,  $f(t) = 0$  for  $299 \leq t < 300$ ,  $f(t) = 1$  for  $300 \leq t < 301$ ,  $f(t) = 0$  for  $301 \leq t < 302$ ,  $f(t) = 1$  for  $302 \leq t < 303$ ,  $f(t) = 0$  for  $303 \leq t < 304$ ,  $f(t) = 1$  for  $304 \leq t < 305$ ,  $f(t) = 0$  for  $305 \leq t < 306$ ,  $f(t) = 1$  for  $306 \leq t < 307$ ,  $f(t) = 0$  for  $307 \leq t < 308$ ,  $f(t) = 1$  for  $308 \leq t < 309$ ,  $f(t) = 0$  for  $309 \leq t < 310$ ,  $f(t) = 1$  for  $310 \leq t < 311$ ,  $f(t) = 0$  for  $311 \leq t < 312$ ,  $f(t) = 1$  for  $312 \leq t < 313$ ,  $f(t) = 0$  for  $313 \leq t < 314$ ,  $f(t) = 1$  for  $314 \leq t < 315$ ,  $f(t) = 0$  for  $315 \leq t < 316$ ,  $f(t) = 1$  for  $316 \leq t < 317$ ,  $f(t) = 0$  for  $317 \leq t < 318$ ,  $f(t) = 1$  for  $318 \leq t < 319$ ,  $f(t) = 0$  for  $319 \leq t < 320$ ,  $f(t) = 1$  for  $320 \leq t < 321$ ,  $f(t) = 0$  for  $321 \leq t < 322$ ,  $f(t) = 1$  for  $322 \leq t < 323$ ,  $f(t) = 0$  for  $323 \leq t < 324$ ,  $f(t) = 1$  for  $324 \leq t < 325$ ,  $f(t) = 0$  for  $325 \leq t < 326$ ,  $f(t) = 1$  for  $326 \leq t < 327$ ,  $f(t) = 0$  for  $327 \leq t < 328$ ,  $f(t) = 1$  for  $328 \leq t < 329$ ,  $f(t) = 0$  for  $329 \leq t < 330$ ,  $f(t) = 1$  for  $330 \leq t < 331$ ,  $f(t) = 0$  for  $331 \leq t < 332$ ,  $f(t) = 1$  for  $332 \leq t < 333$ ,  $f(t) = 0$  for  $333 \leq t < 334$ ,  $f(t) = 1$  for  $334 \leq$

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