Ukázka hledání užitečných kongruencí metodou kvadratického síta s více polynomy

N = 7389133143607 rozkládané číslo

M = 1000 polovina délky intervalu

kvadratický polynom Ax^2 + 2Bx + C má následující koeficienty:

A = 3851

B = 2134

C = -1918755801

Užitečné kongruence jsou na řádcích:

-453 -297 576 831

Ve sloupci označeném log2 byla původně přibližná hodnota log2 (|Q(x)|), od ní pak byl "na správných řádcích" odčítán log2 (p).

x	log2	2	3	19	23	29	37	47	59	61	71	73	107	109	113	127	131	167	181	211	223	229	239	241	263	271
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-997	23.66014862	2	81																							
-996	21.91519165		3																181							
-995	17.39428902	2			23																					271
-994	21.61413765		3																		223					
-993	28.41503716	2	3																							
-992	26.75207138			19																						
-991	28.41503716	2	3																							
-990	26.24511147		27																							
-989	30	2																								
-988	27.83007431		9																							
-987	23.20558357	2	3				37																			
-986	31																									
-985	28.41503716	2	3																							
-984	29.41503716		3																							
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-981	26.83007431	2	9																							
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-979	12.3415432	2	9													127			181							
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-977	30	2																								
-976	29.41503716		3																							

-975	16.04026985	2	3					47							113											
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-972	23.30651283		9		23																					
-971	30	2																								
-970	26.24511147		27																							
-969	23.55705643	2	3			29																				
-968	25.06926346									61																
-967	22.26528931	2	3								71															
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-964	29.41503716		3																							
-963	9.014545441	2	81	361							71															
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-954	16.19844055		9	19														167								
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865	22.81017494	2										73														
866	22.07518578		243																							
867	21.53239441	2	3						59																	
868	25.47643852				23																					
869	27.41503716	2	3																							
870	24.16711044		3	19																						
871	29	2																								
872	28.41503716		3																							
873	24.24511147	2	27																							
874	30																									
875	18.79665184	2	9														131									
876	28.41503716		3																							
877	29	2																								
878	11.01378345		3			29		47								127										
879	21.26528931	2	3								71															
880	25.75207138			19																						
881	22.89147568	2	3		23																					
882	26.83007431		9																							
883	15.46654987	2									71							167								
884	21.62062073		9				37																			
885	27.41503716	2	3																							
886	30																									
887	9.640991211	2	3			29			59								131									
888	28.41503716		3																							
889	24.75207138	2		19																						
890	21.59485817		3												113											
891	21.30651283	2	9		23																					
892	17.3010788									61				109												
893	24.24511147	2	27																							
894	28.41503716		3																							
895	29	2																								
896	28.41503716		3																							

897	13.31232262	2	3									73												241		
898	30																									
899	23.16711044	2	3	19																						
900	18.45069504		81				37																			
901	29	2																								
902	18.7479248		9																							271
903	20.64685249	2	3											109												
904	20.95287704				529																					
905	21.86044884	2	3					47																		
906	28.41503716		3																							
907	24.14201927	2				29																				
908	16.36621094		3	19																	223					
909	25.83007431	2	9																							
910	30																									
911	25.83007431	2	9																							
912	28.41503716		3																							
913	29	2																								
914	23.89147568		3		23																					
915	19.37611771	2	3																						263	
916	25.14201927					29																				
917	27.41503716	2	3																							
918	22.58214569		9	19																						
919	29	2																								
920	25.24511147		27																							
921	22.20558357	2	3				37																			
922	30																									
923	21.48429871	2	3							61																
924	28.41503716		3																							
925	23.44541168	2						47																		
926	15.54370975		3						59							127										
927	15.47362328	2	27	19	23																					
928	22.61629486																	167								
929	17.99087143	2	9																			229				
930	28.41503716		3																							
931	29	2																								
932	28.41503716		3																							

933	27.41503716	2	3																							
934	30																									
935	27.41503716	2	3																							
936	21.97209358		9			29																				
937	15.01905632	2		19	23		37																			
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939	27.41503716	2	3																							
940	30																									
941	27.41503716	2	3																							
942	28.41503716		3																							
943	29	2																								
944	28.41503716		3																							
945	21.97209358	2	9			29																				
946	7.307783127			19					59				107		113											
947	23.66014862	2	81																							
948	29.41503716		3																							
949	30	2																								
950	18.74172974		3		23						71															
951	28.41503716	2	3																							
952	17.72431183							47												211						
953	22.48429871	2	3							61																
954	20.09536362		27								71															
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956	23.58214569		9	19																						
957	28.41503716	2	3																							
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959	28.41503716	2	3																							
960	24.89147568		3		23																					
961	22.16079712	2																				229				
962	29.41503716		3																							
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964	31																									
965	17.72416496	2	9	19		29																				
966	21.6939373		3																	211						
967	30	2																								
968	22.67357063		3										107													

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972	22.27548599		9					47																		
973	25.47643852	2			23																					
974	16.17767715		27			29	37																			
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976	31																									
977	20.37611771	2	3																						263	
978	29.41503716		3																							
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980	29.41503716		3																							
981	23.66014862	2	81																							
982	31																									
983	17.78295135	2	9		529																					
984	19.2363739		3	19						61																
985	24.11735725	2							59																	
986	29.41503716		3																							
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988	31																									
989	28.41503716	2	3																							
990	27.83007431		9																							
991	30	2																								
992	27.83007431		9																							
993	28.41503716	2	3																							
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995	15.70573807	2	3				37												181							
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997	30	2																								
998	29.41503716		3																							
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1000	31																									